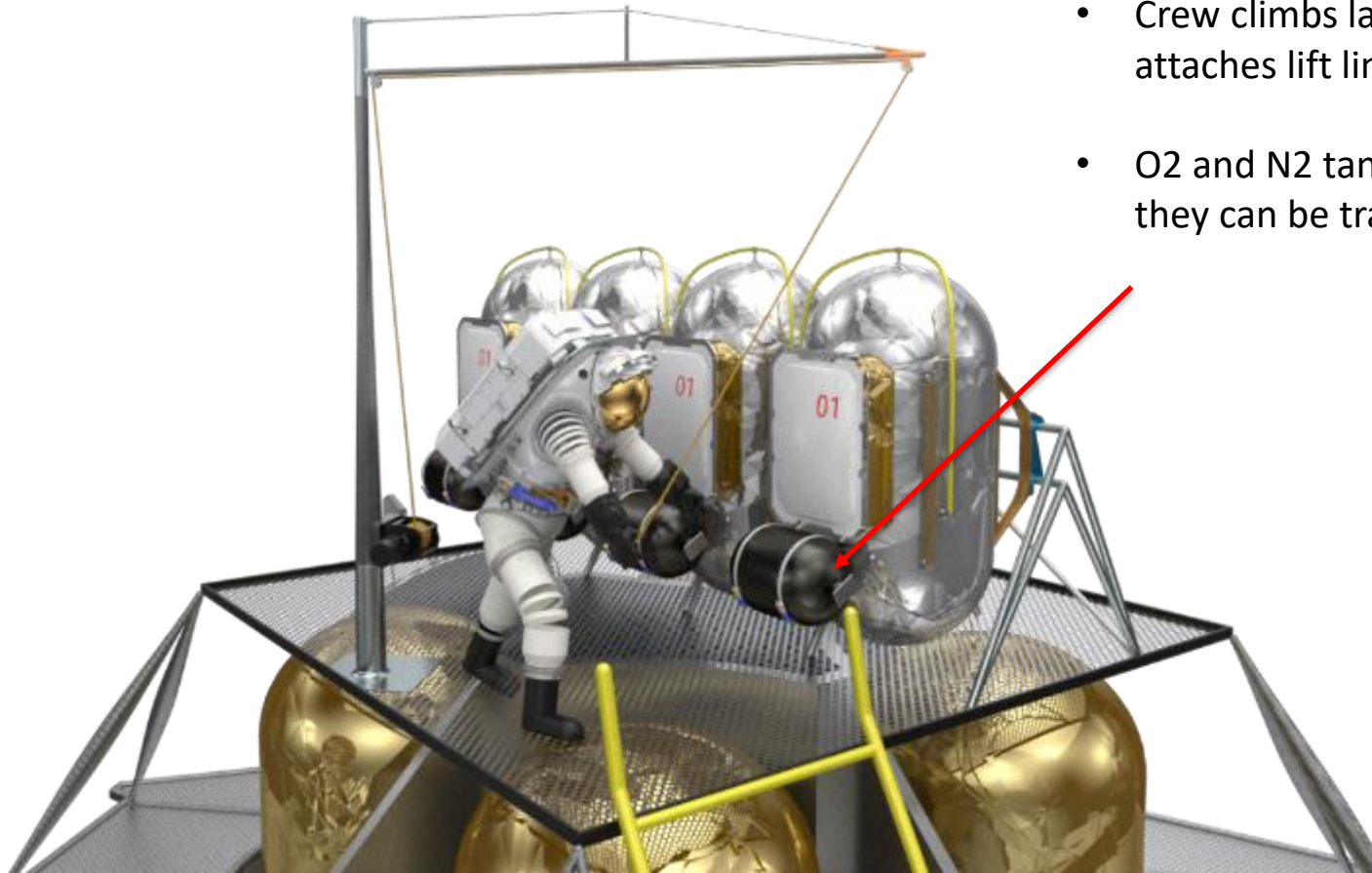


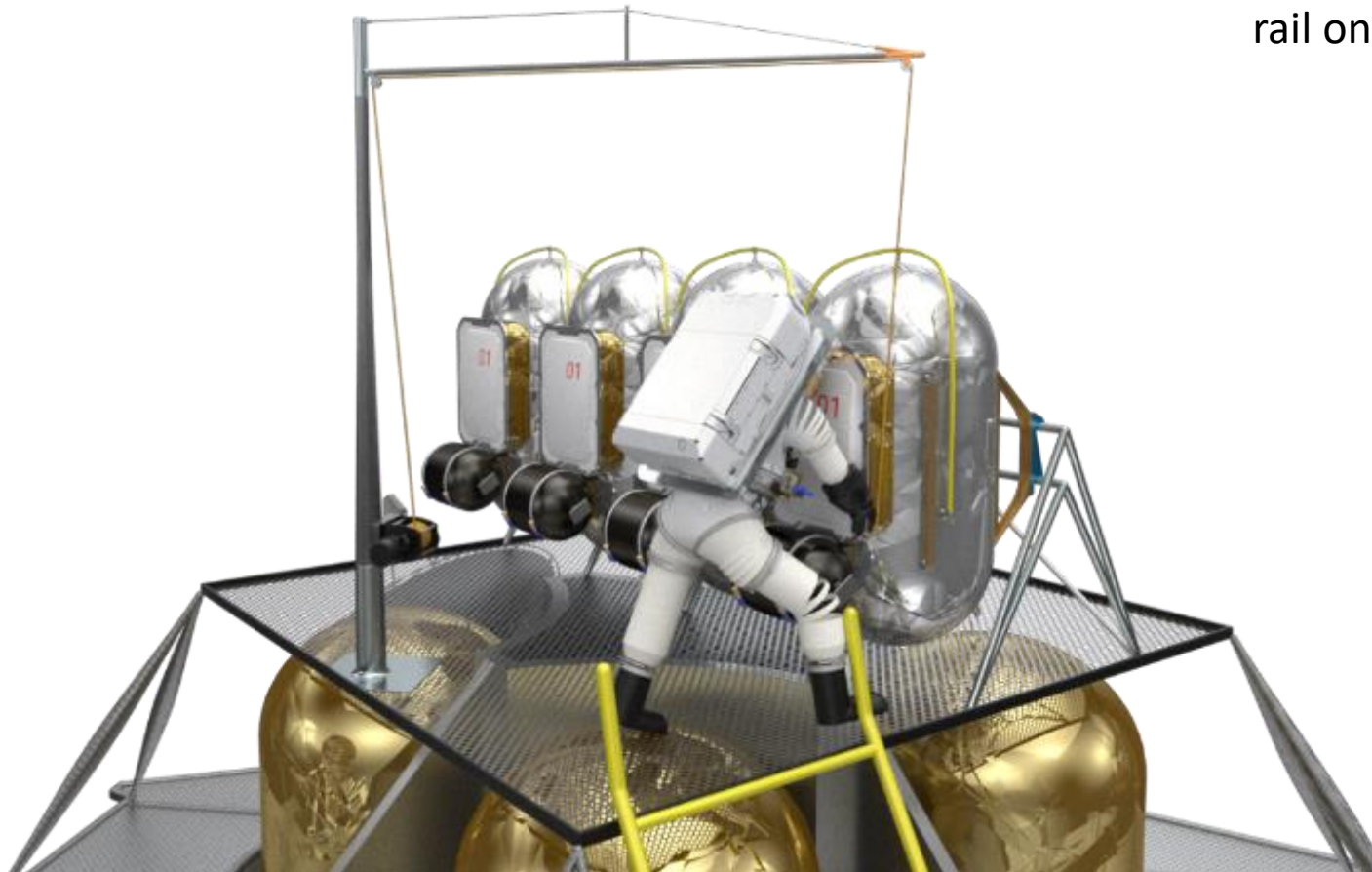
# Logistics Transfer Methods – Offloading SPLCs from CLPS



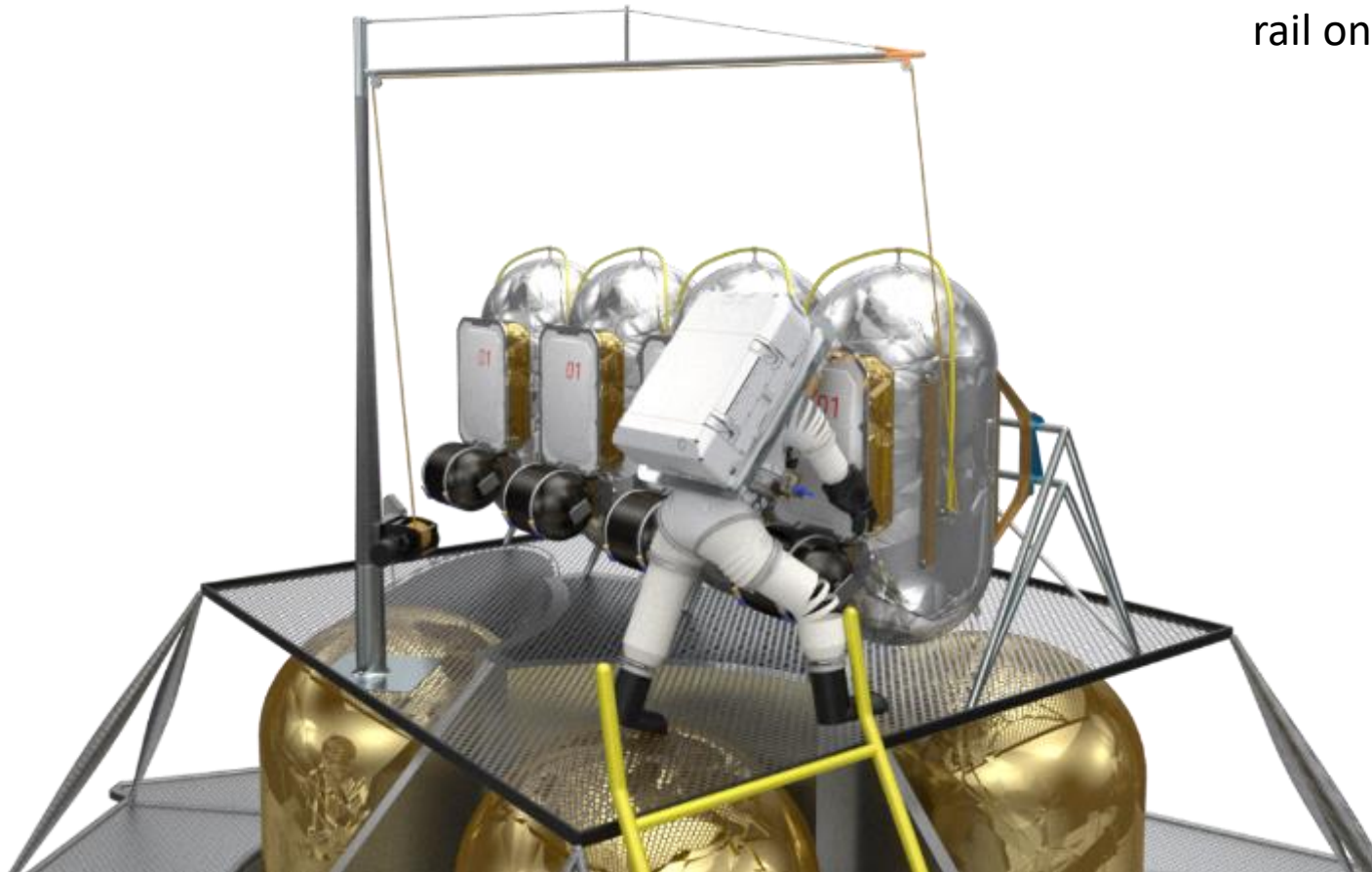
- Assumes crew offloads SPLCs using a davit
- Crew climbs ladder, unstows the davit, attaches lift line to handrail on side of SPLC
- O2 and N2 tanks are attached to SPLC so they can be transferred together



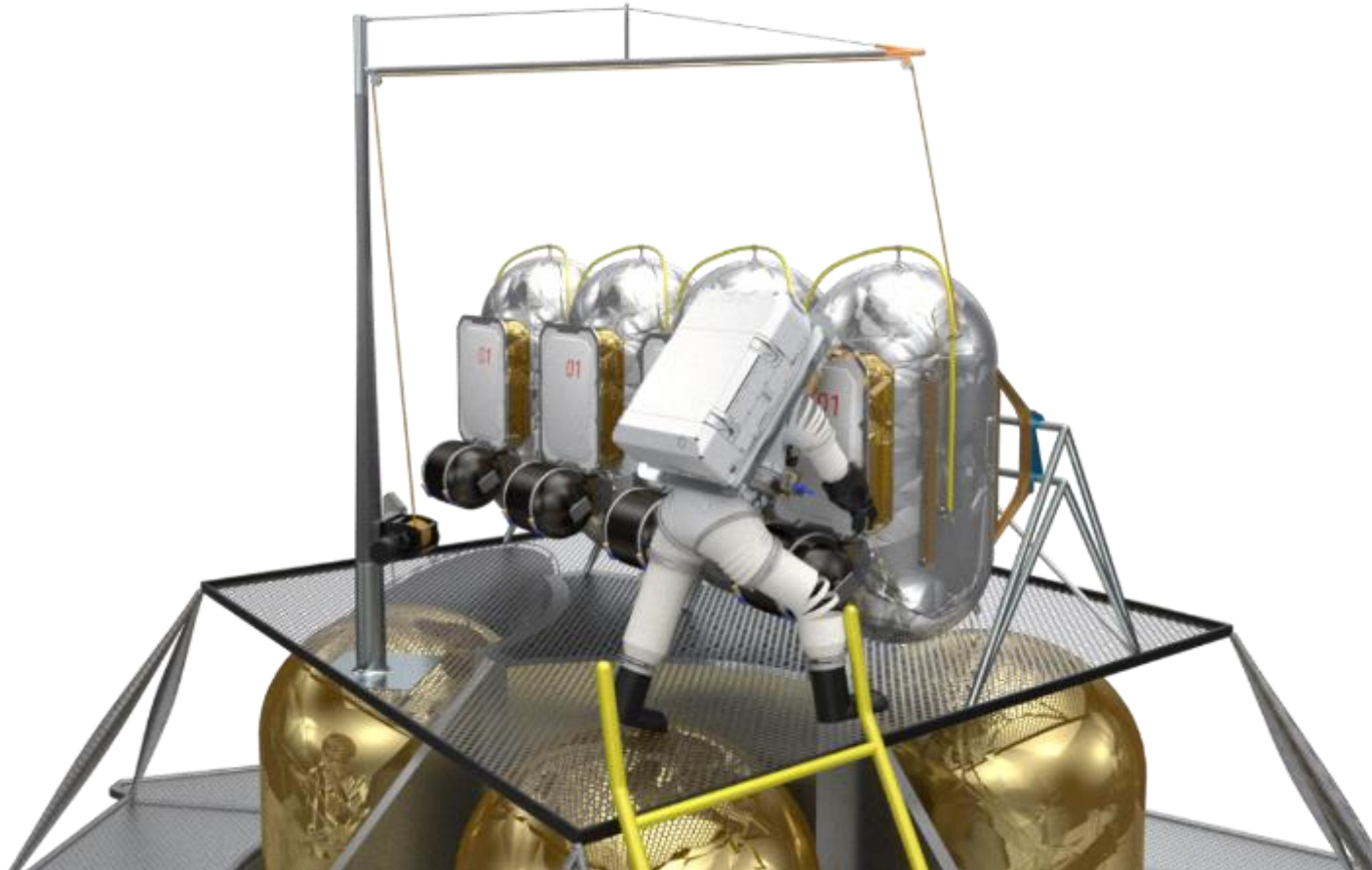
- Crew climbs ladder, unstows the davit, attaches hook line to hand rail on side of SPLC



- Crew climbs ladder, unstows the davit, attaches hook line to hand rail on side of SPLC

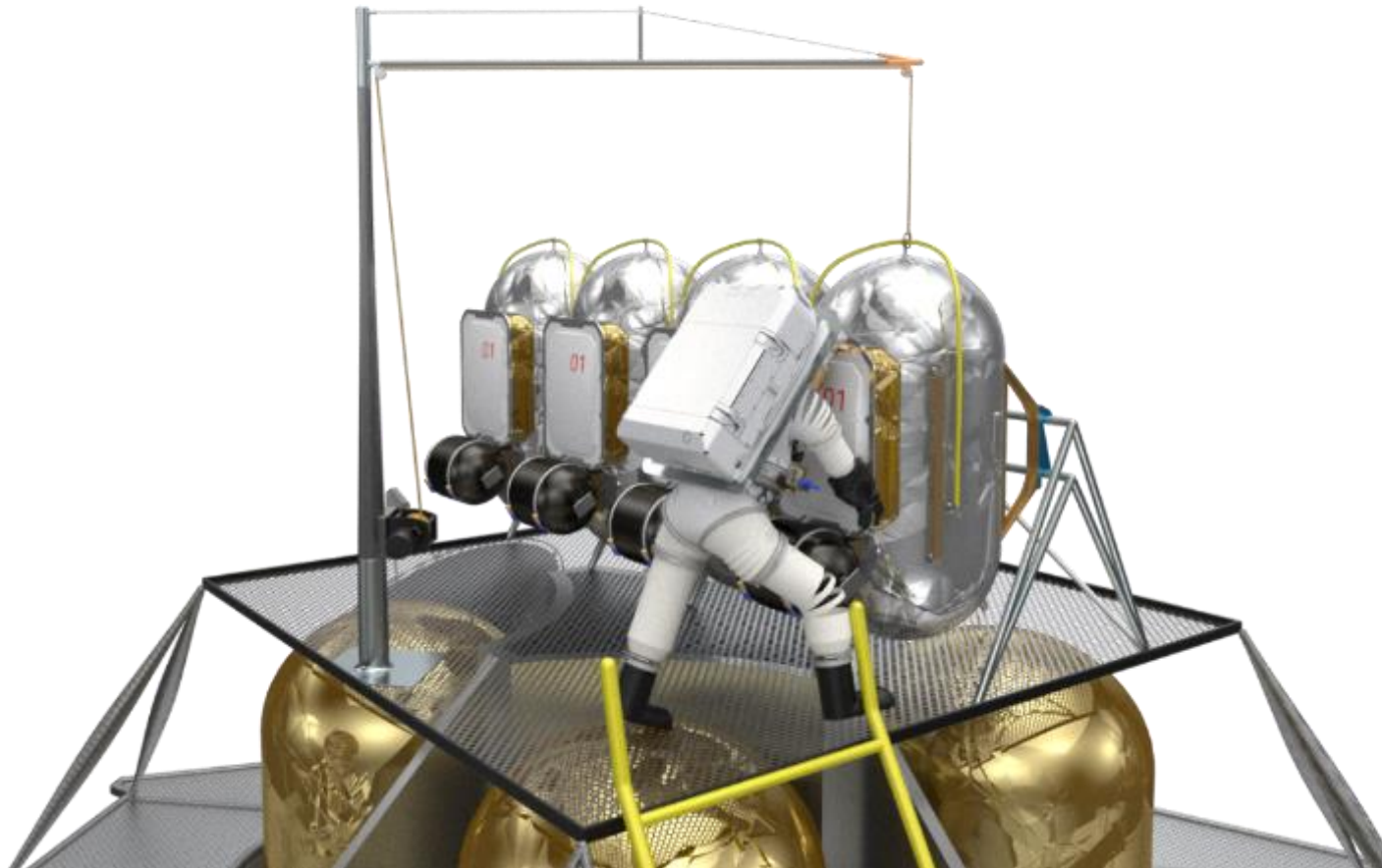


- As davit is tensioned the lift line carabiner/shackle slides up to the top

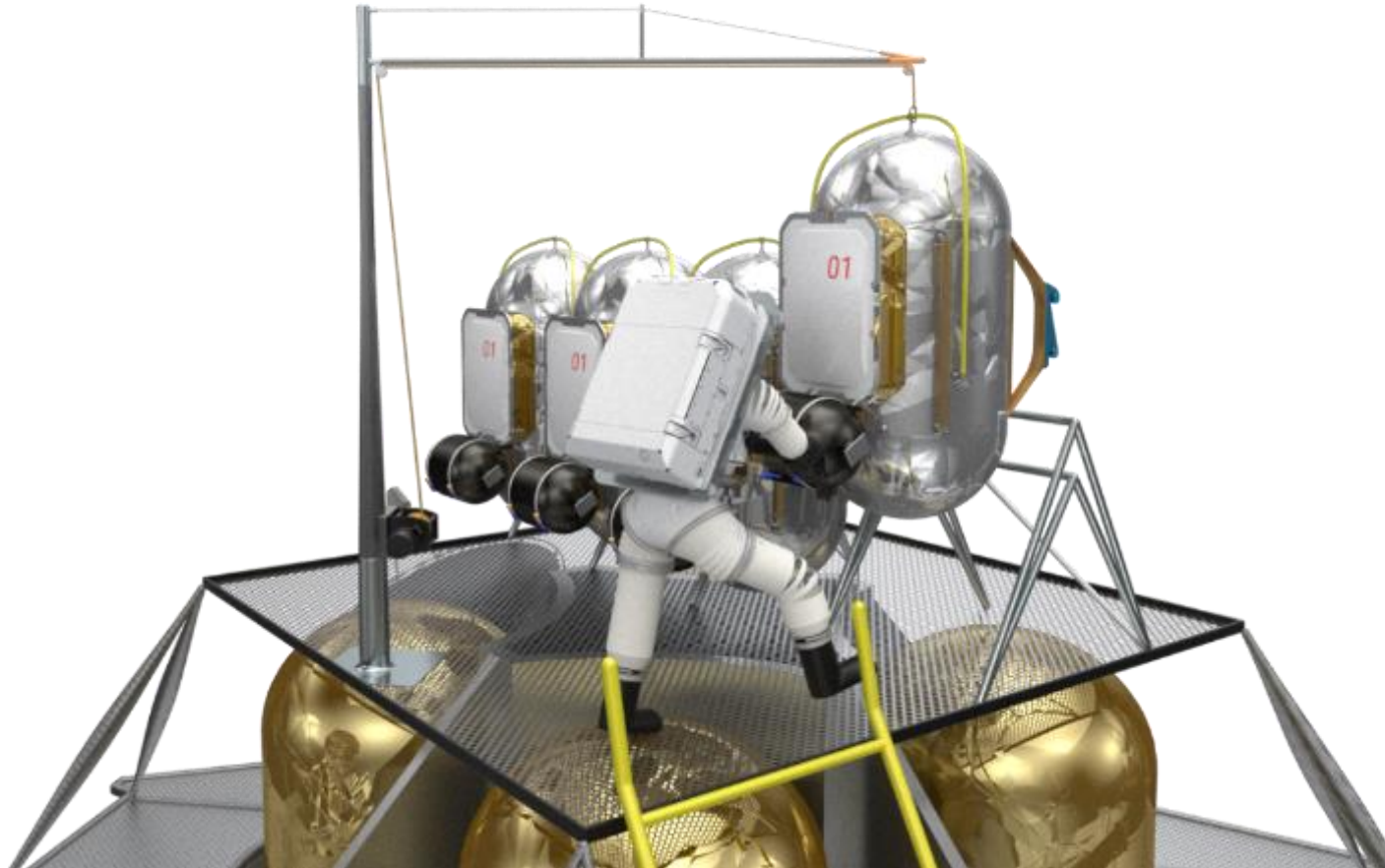




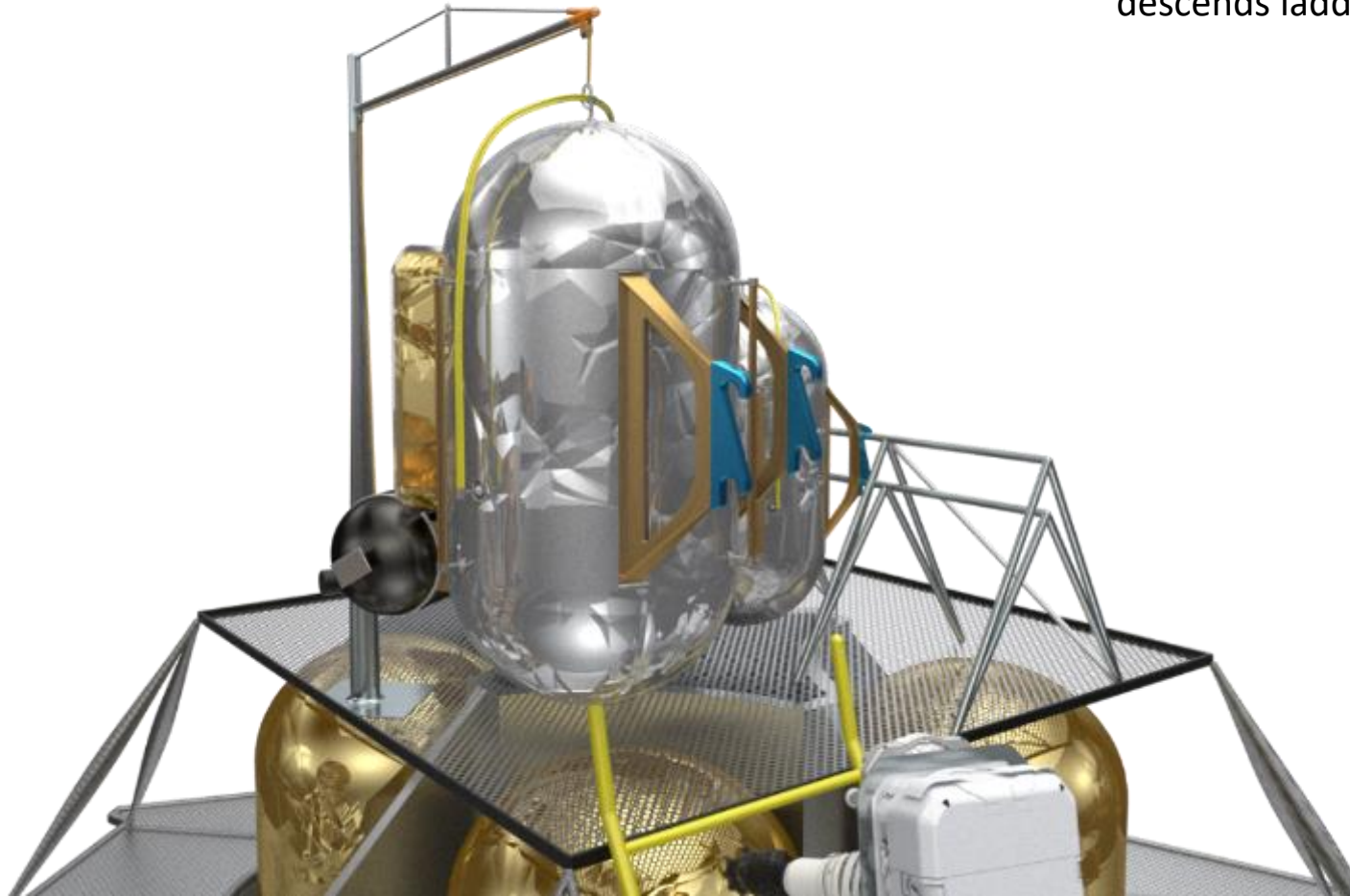
- As davit is tensioned the lift line carabiner/shackle slides up to the top



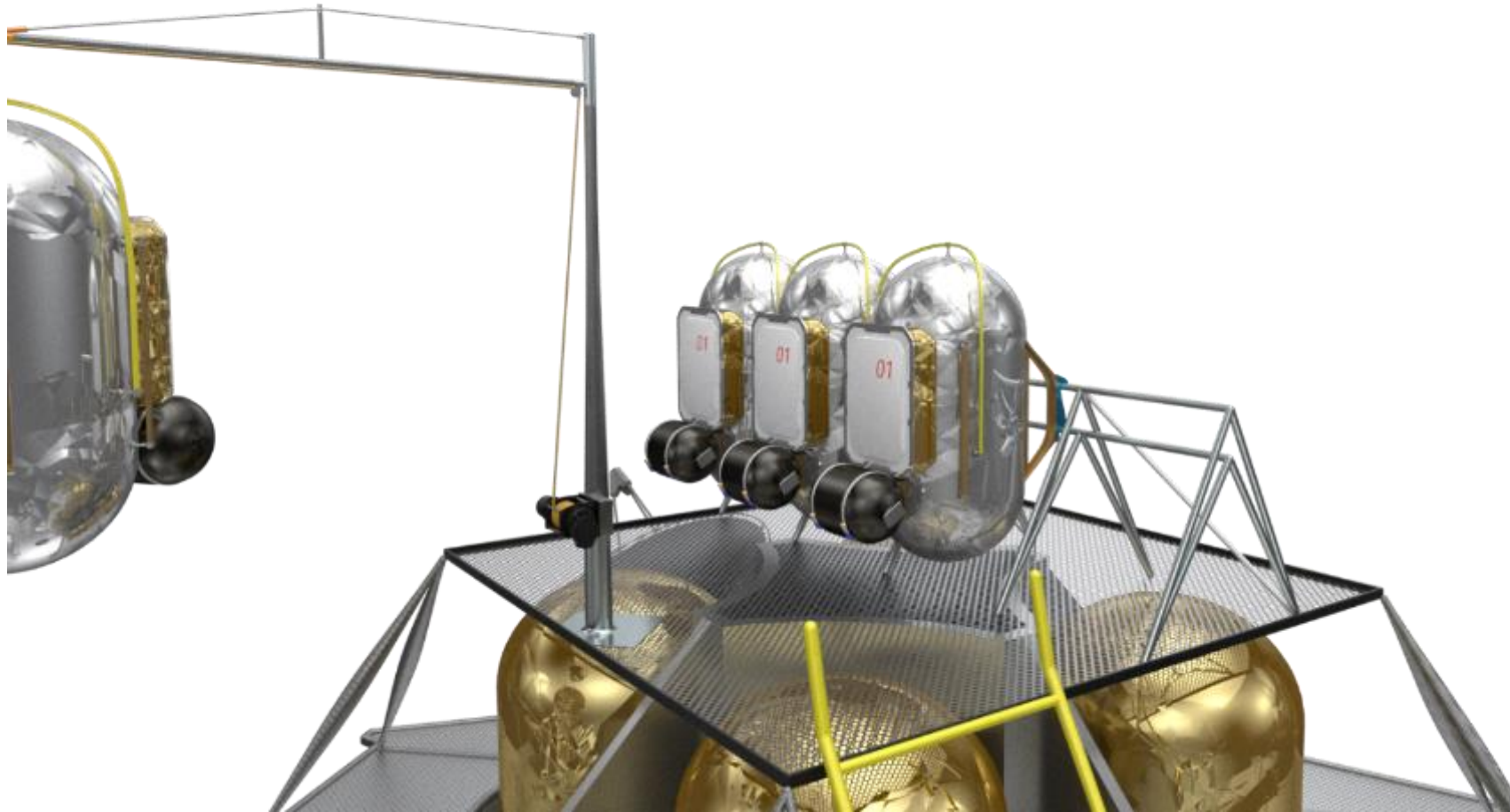
- As davit is tensioned the lift line carabiner/shackle slides up to the top



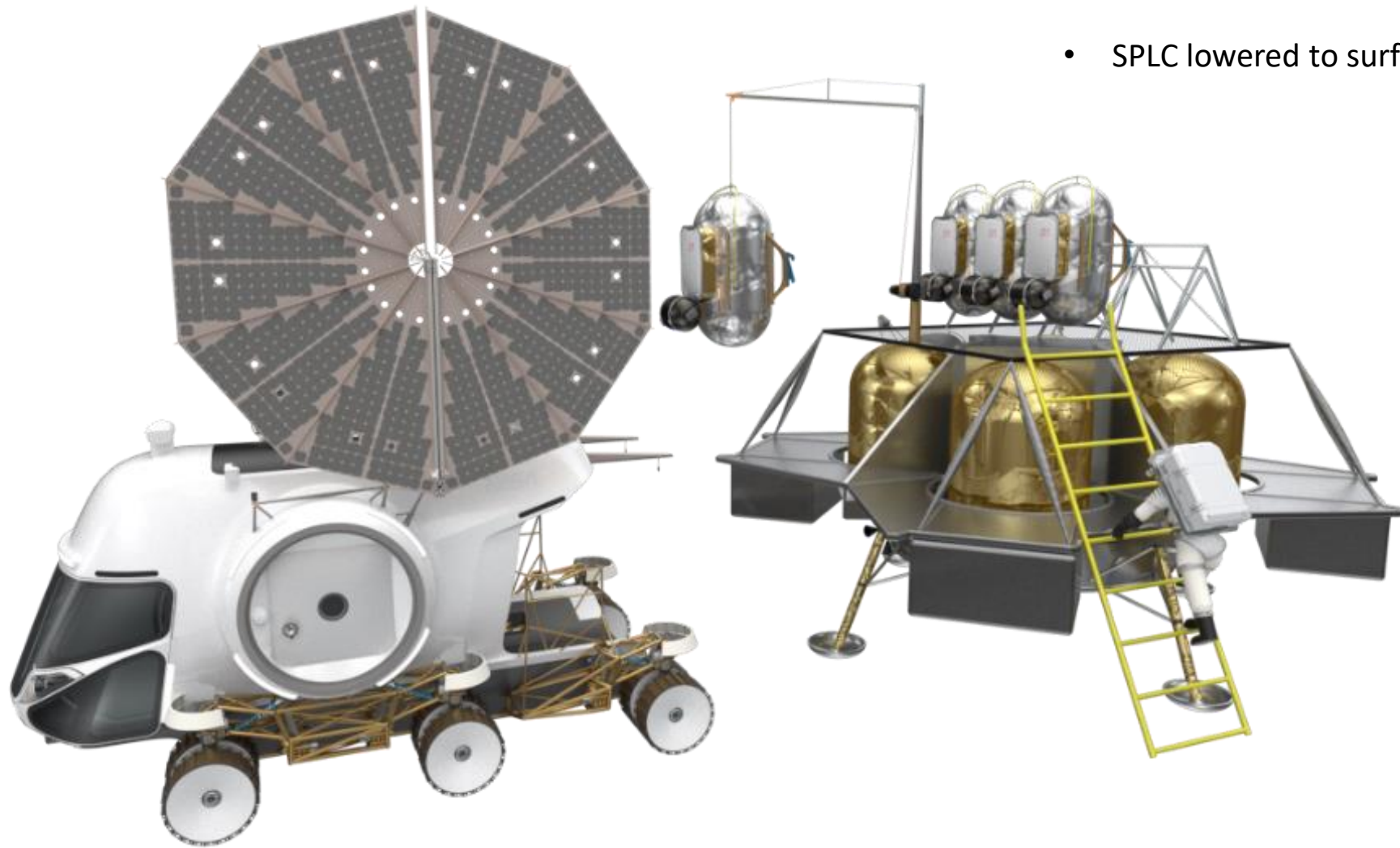
- Crewmember attaches tag line to SPLC and descends ladder



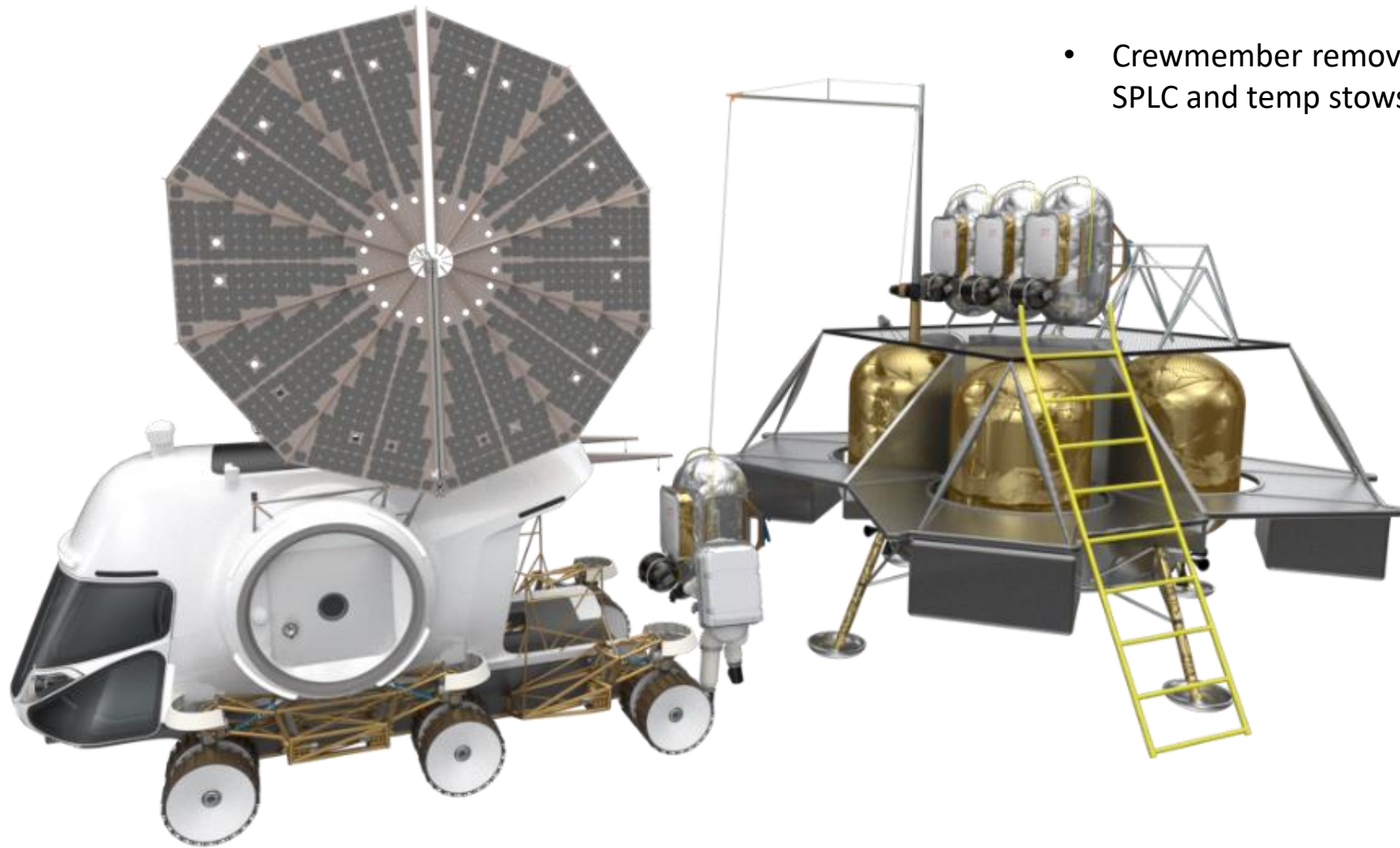
- Crewmember uses tag line to swing davit over side of CLPS lander



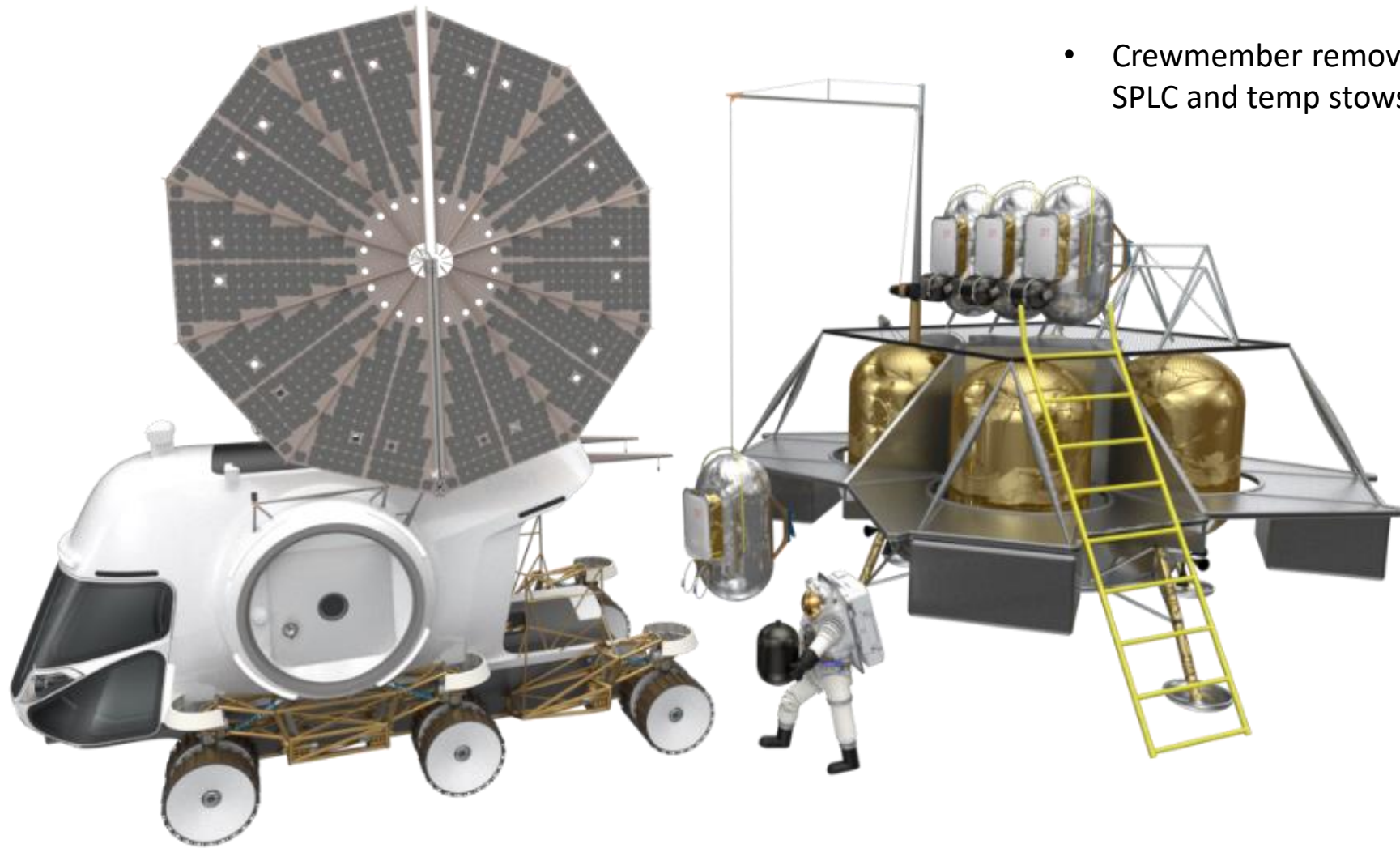




- SPLC lowered to surface

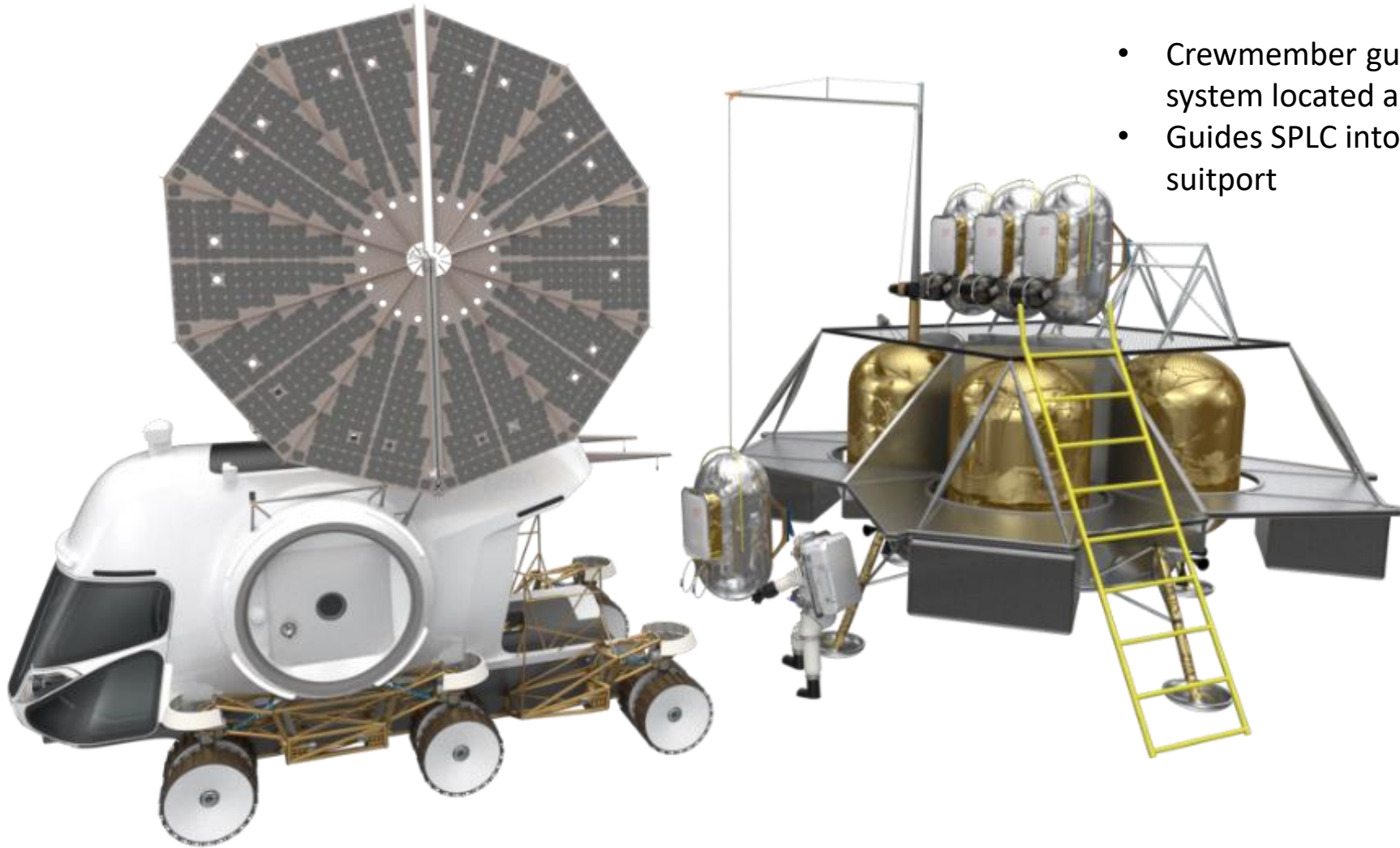


- Crewmember removes N<sub>2</sub>/O<sub>2</sub> tank from SPLC and temp stows



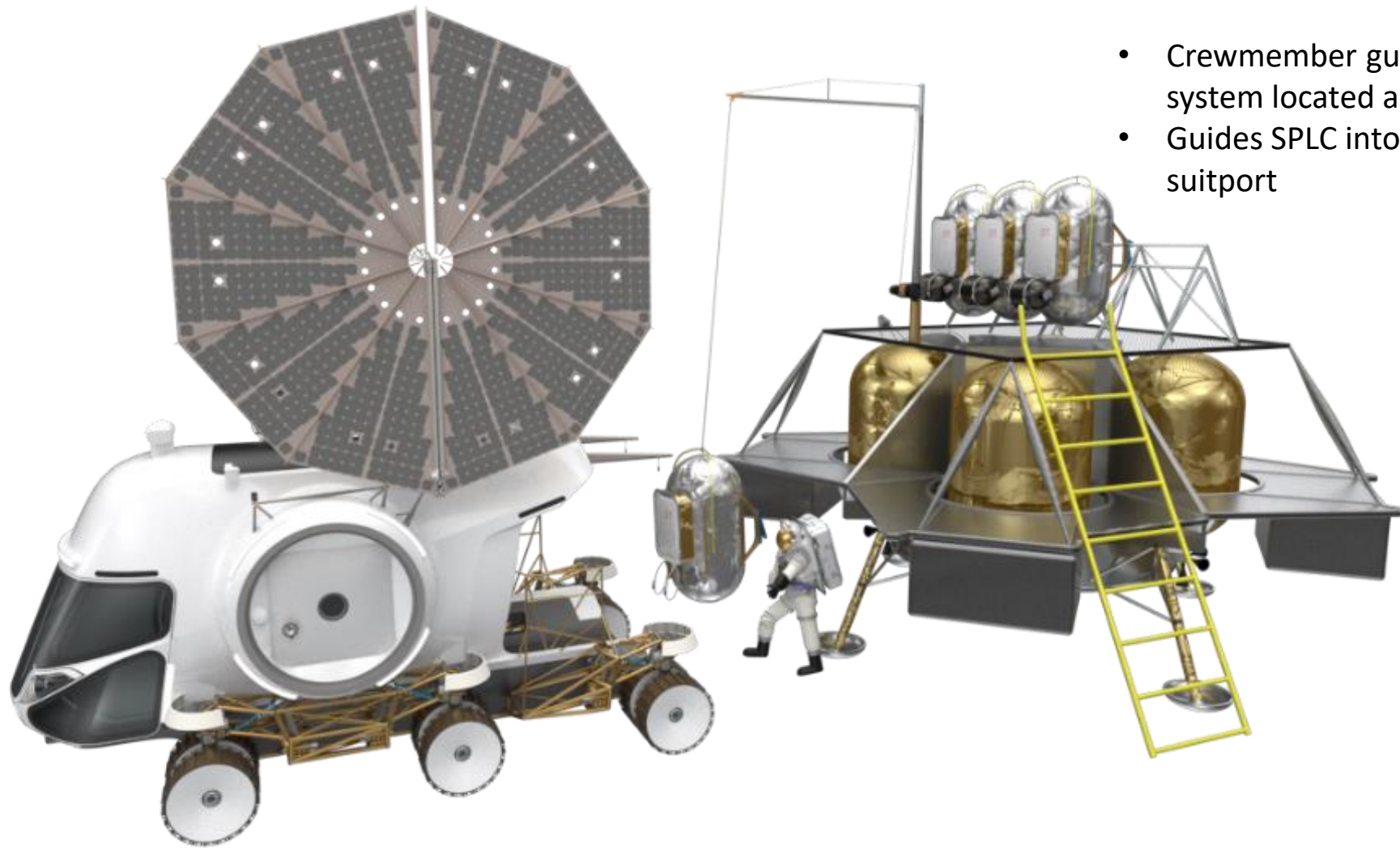
- Crewmember removes N<sub>2</sub>/O<sub>2</sub> tank from SPLC and temp stows



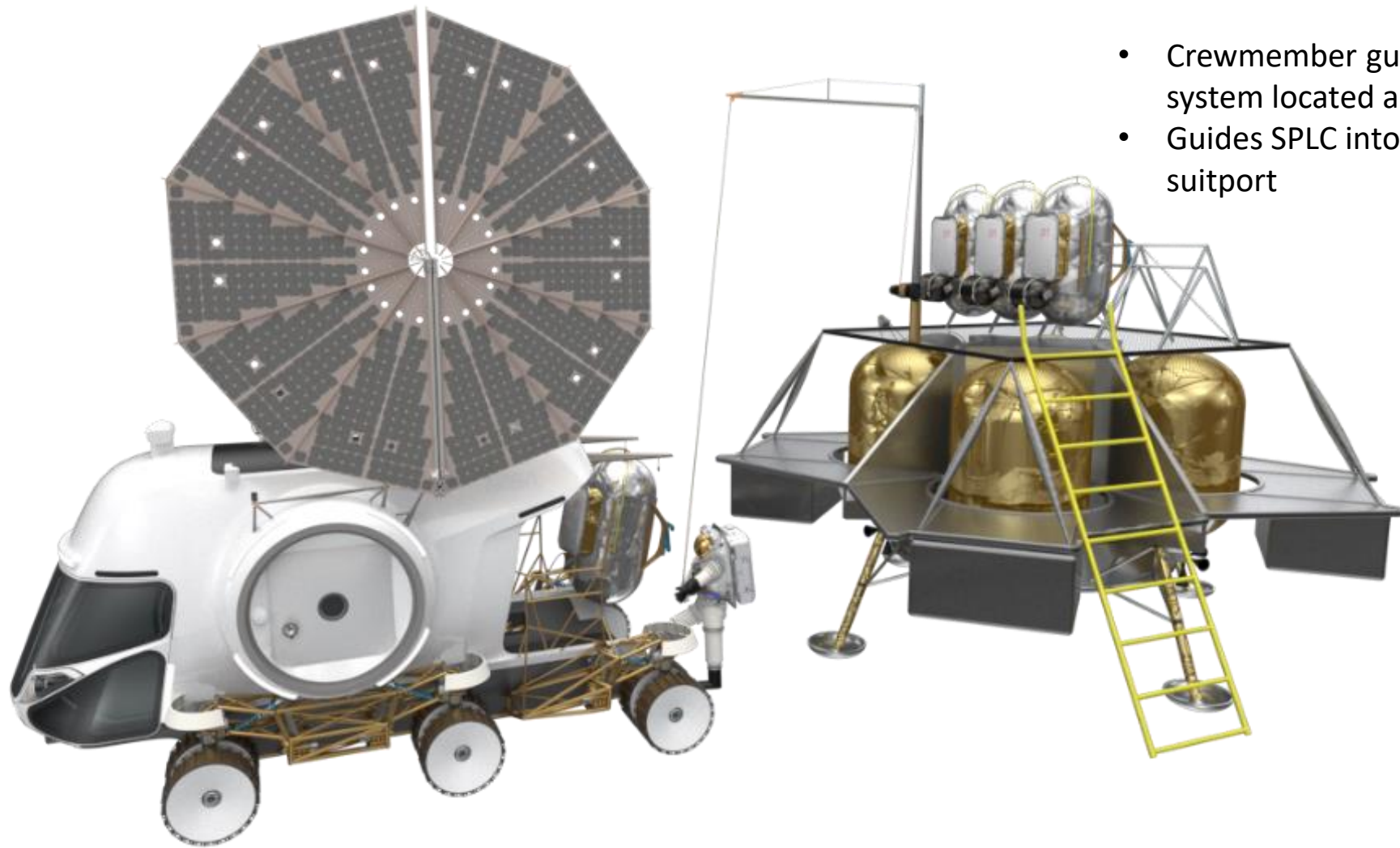


- Crewmember guides SPLC onto rail system located above suitport
- Guides SPLC into alignment with the suitport



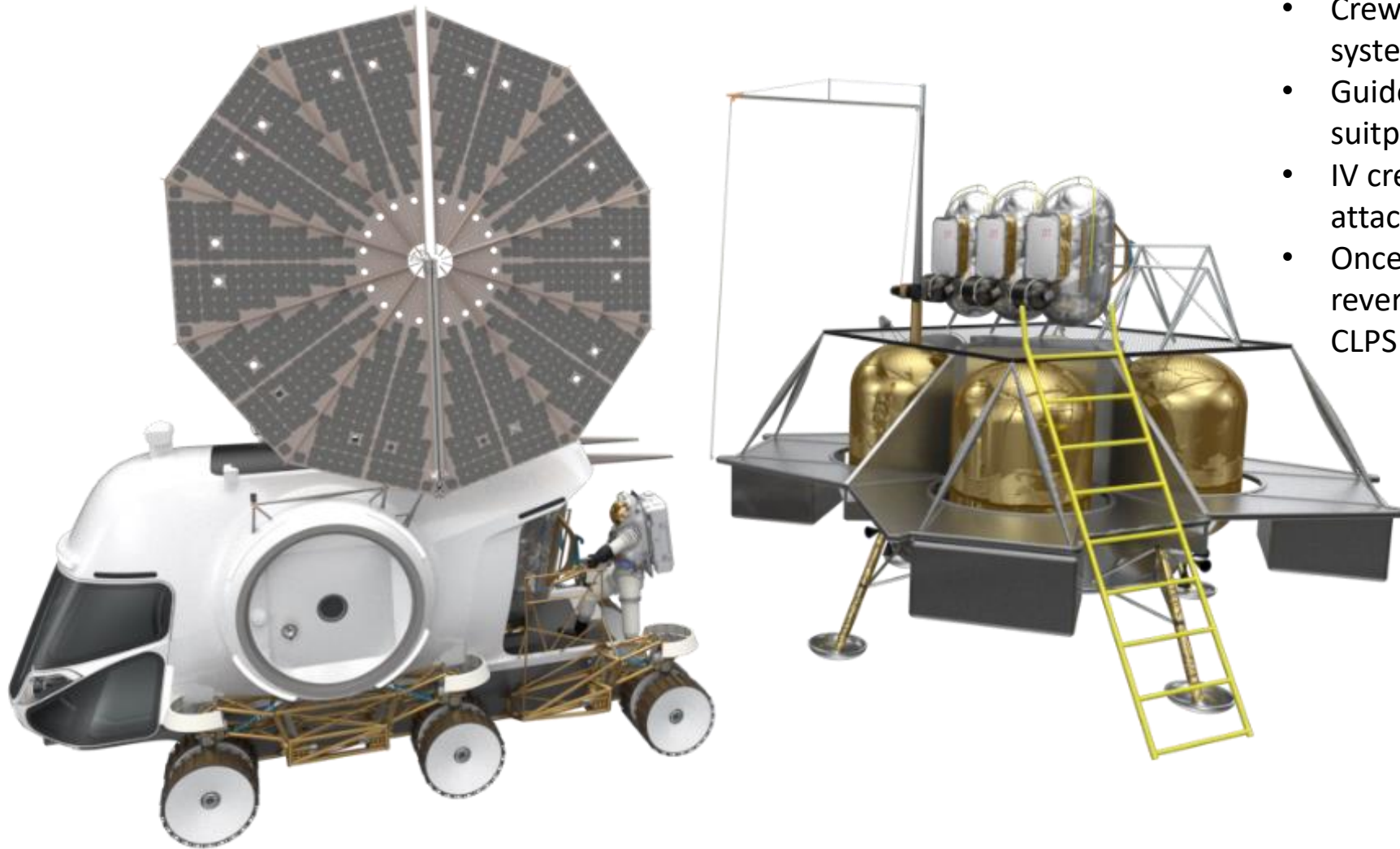


- Crewmember guides SPLC onto rail system located above suitport
- Guides SPLC into alignment with the suitport



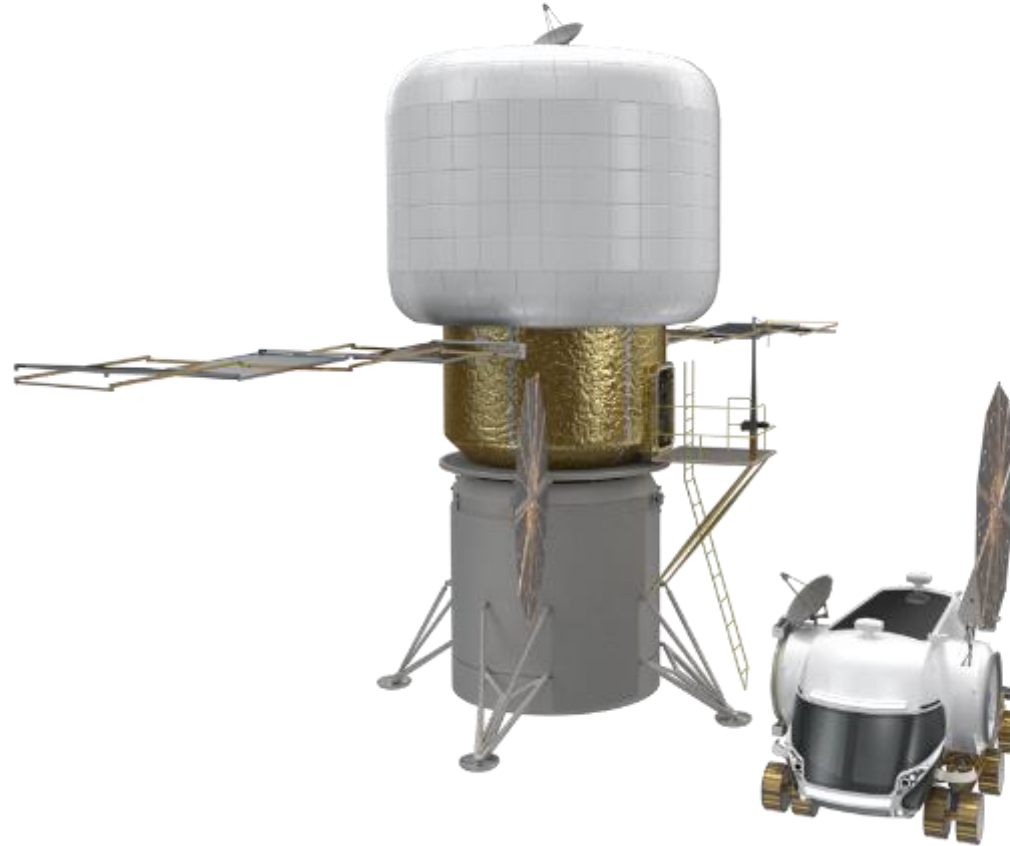
- Crewmember guides SPLC onto rail system located above suitport
- Guides SPLC into alignment with the suitport

# Logistics Transfer Methods

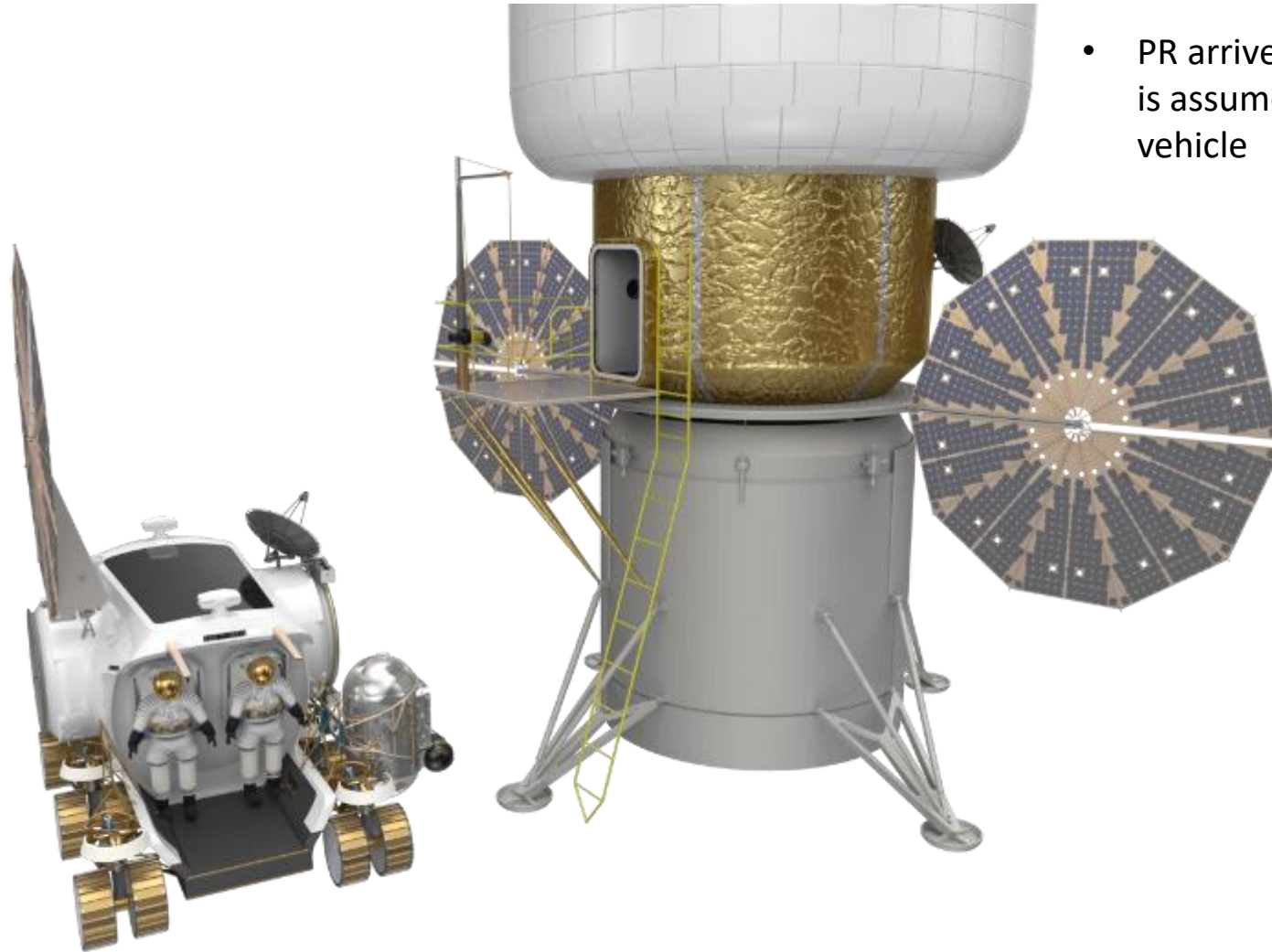


- Crewmember guides SPLC onto rail system located above suitport
- Guides SPLC into alignment with the suitport
- IV crewmember unloads SPLC once attached
- Once empty EVA crewmember reverses process to restow SPLC on CLPS lander

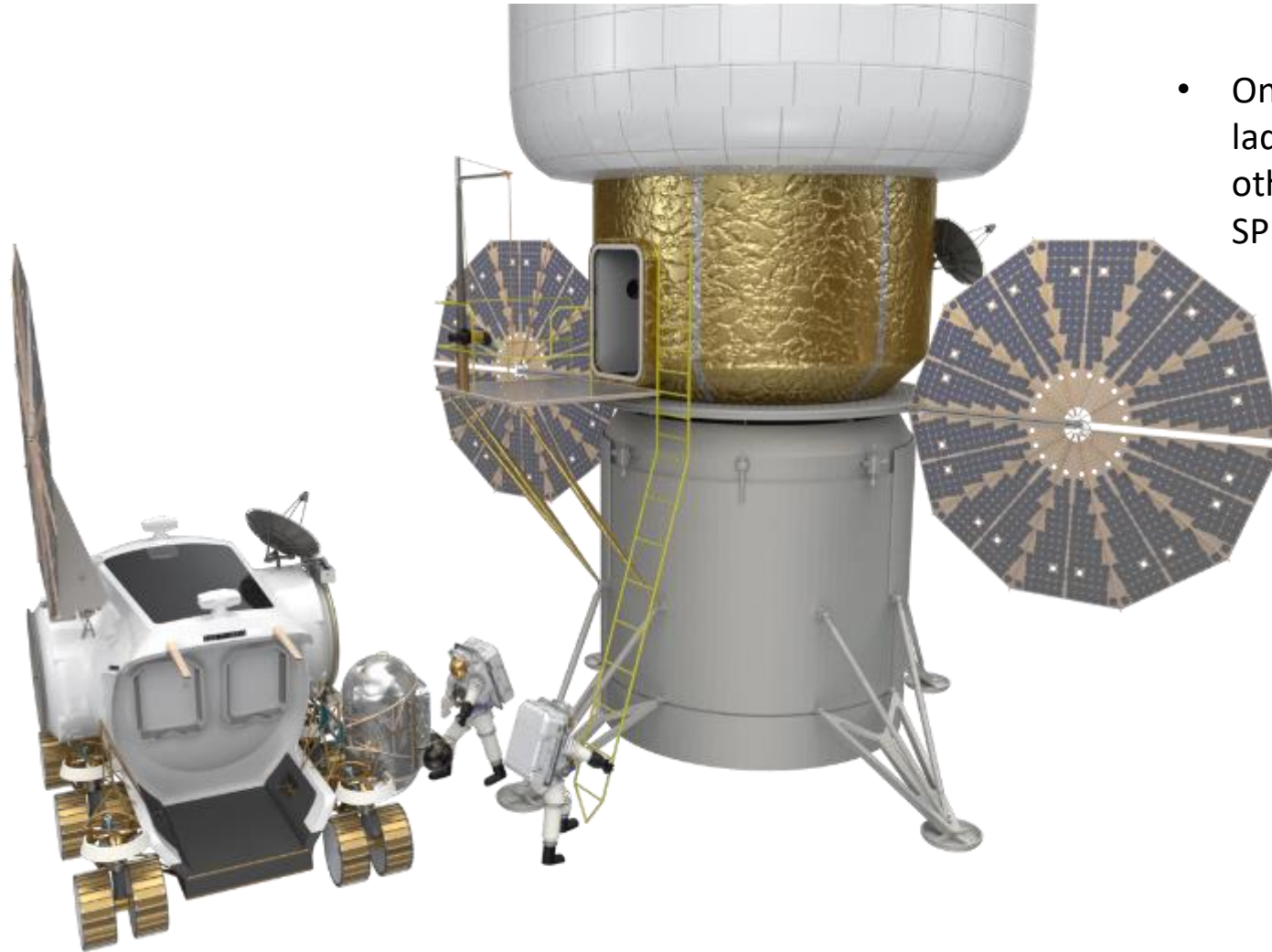
- PR arrives at habitat with SPLC but LTV is assumed as nominal SPLC transfer vehicle



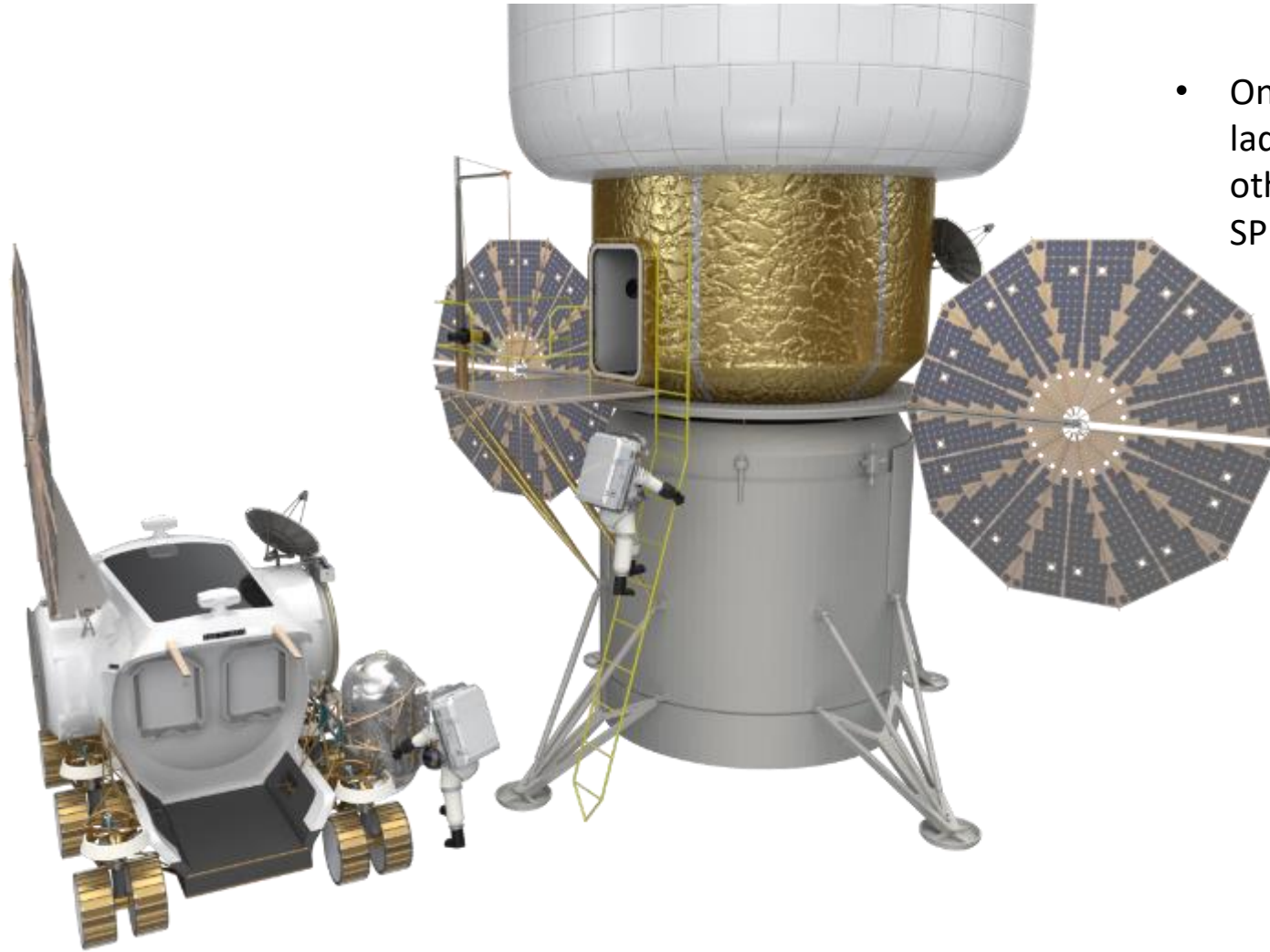




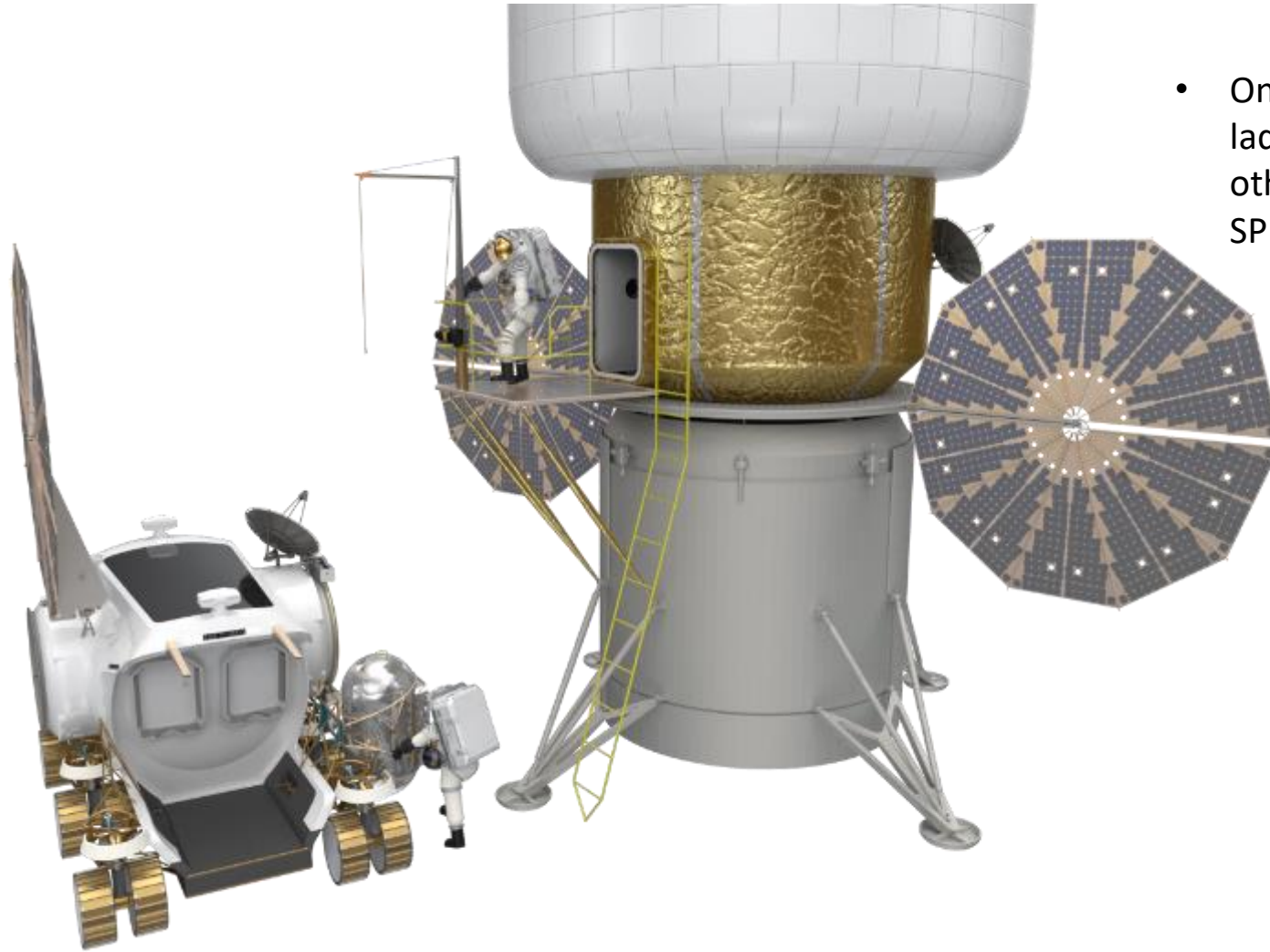
- PR arrives at habitat with SPLC but LTV is assumed as nominal SPLC transfer vehicle



- One crewmember ascends ladder and lowers davit line to other crewmember to attach to SPLC

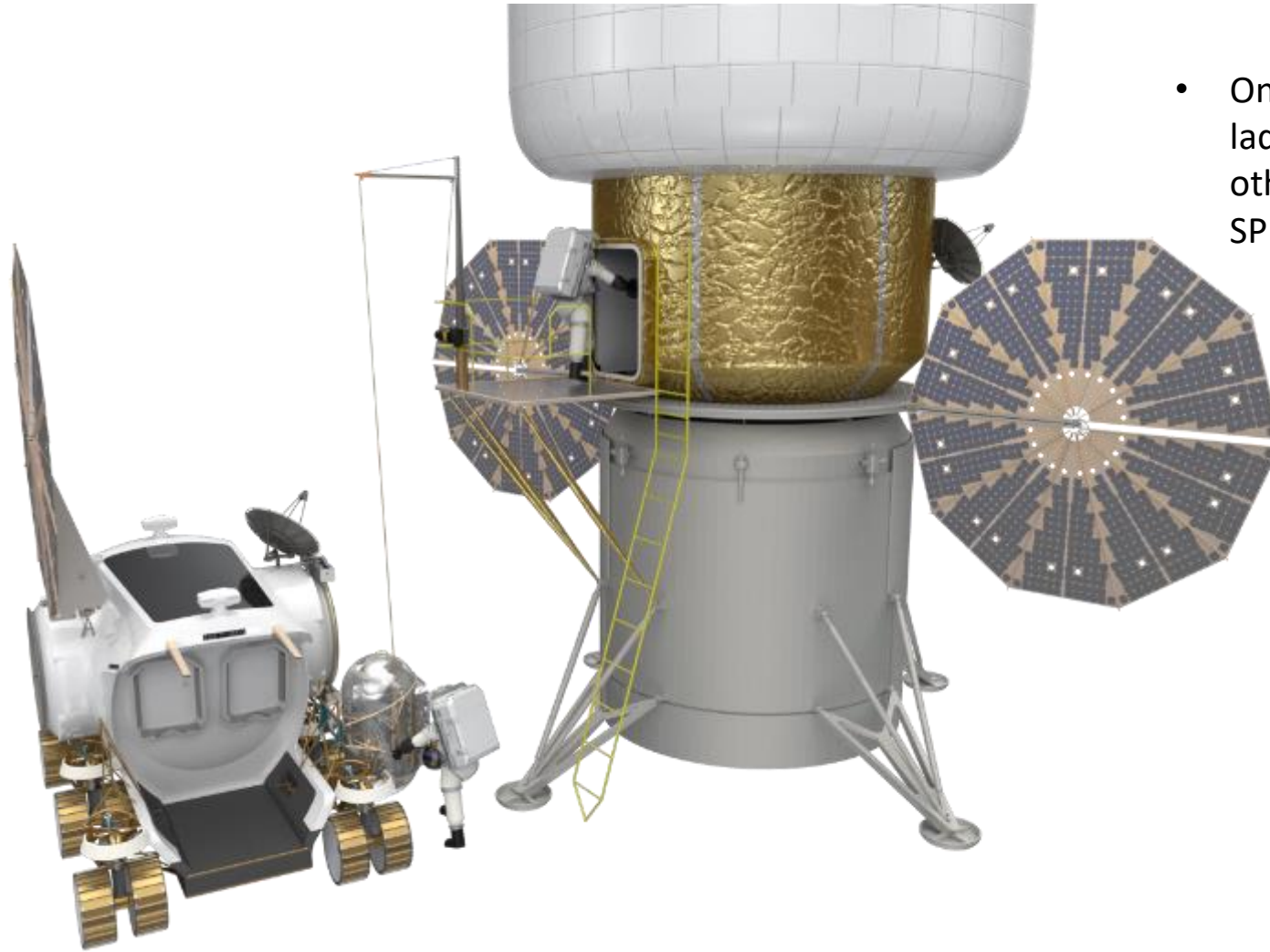


- One crewmember ascends ladder and lowers davit line to other crewmember to attach to SPLC

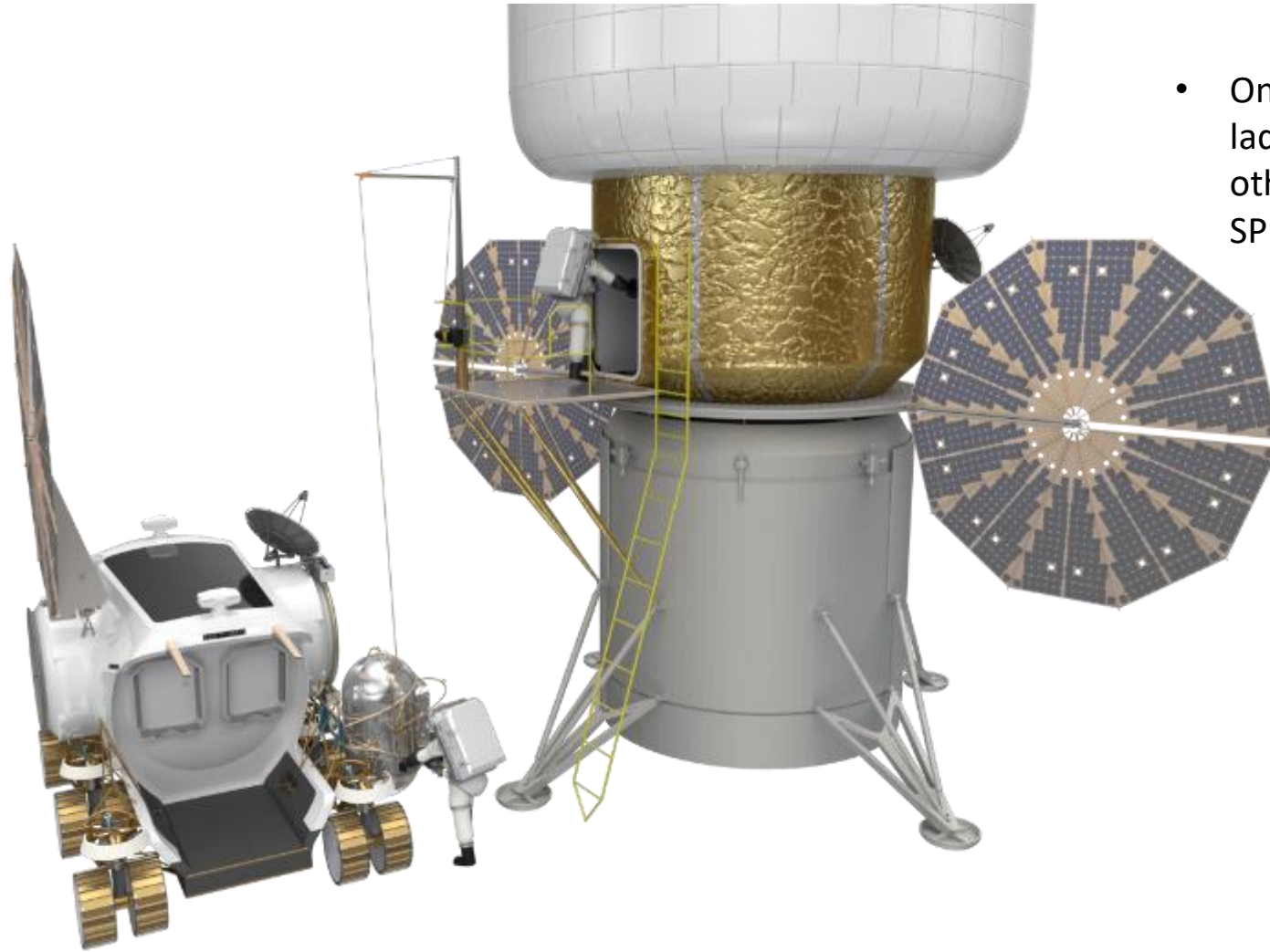


- One crewmember ascends ladder and lowers davit line to other crewmember to attach to SPLC

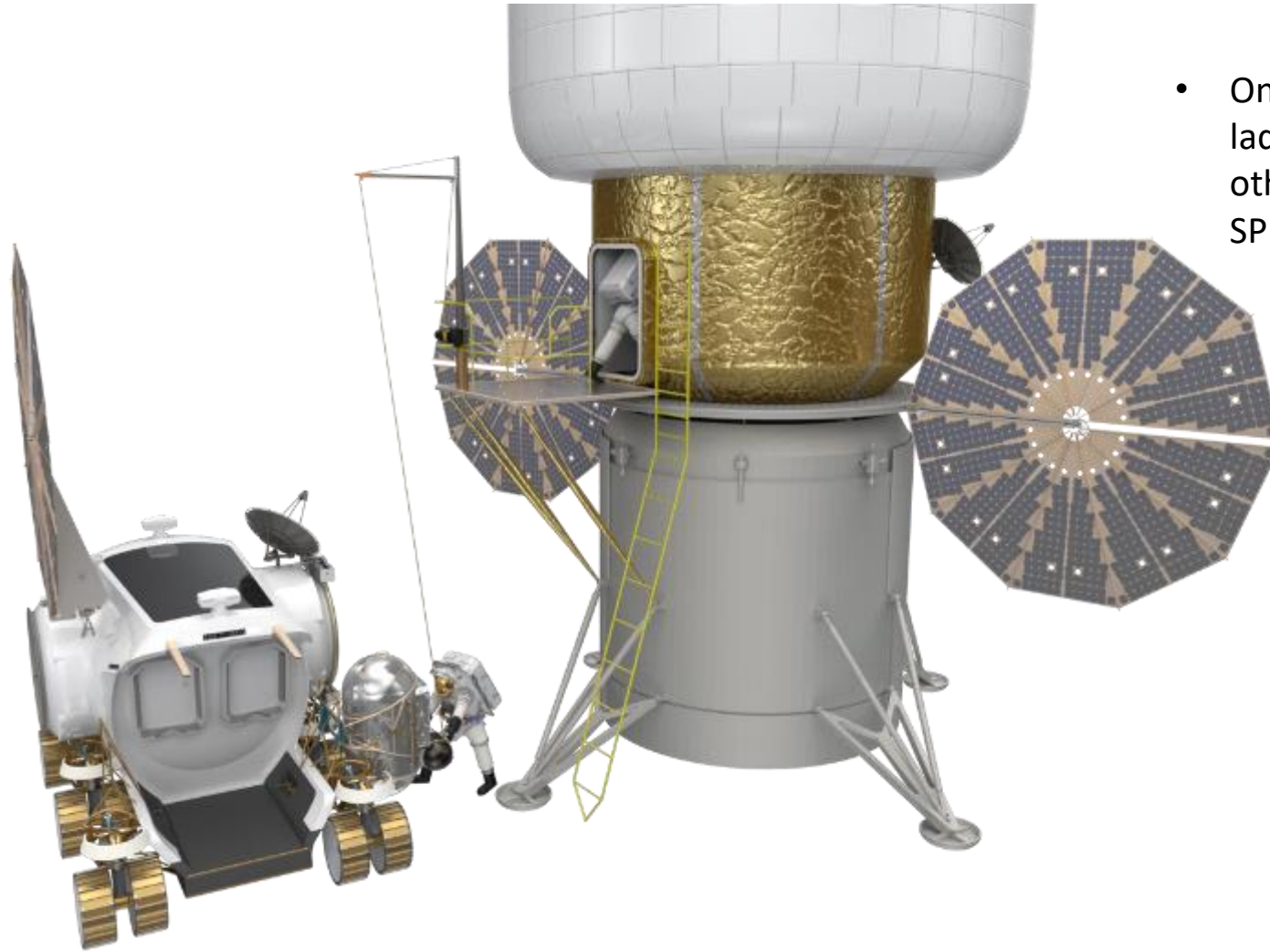




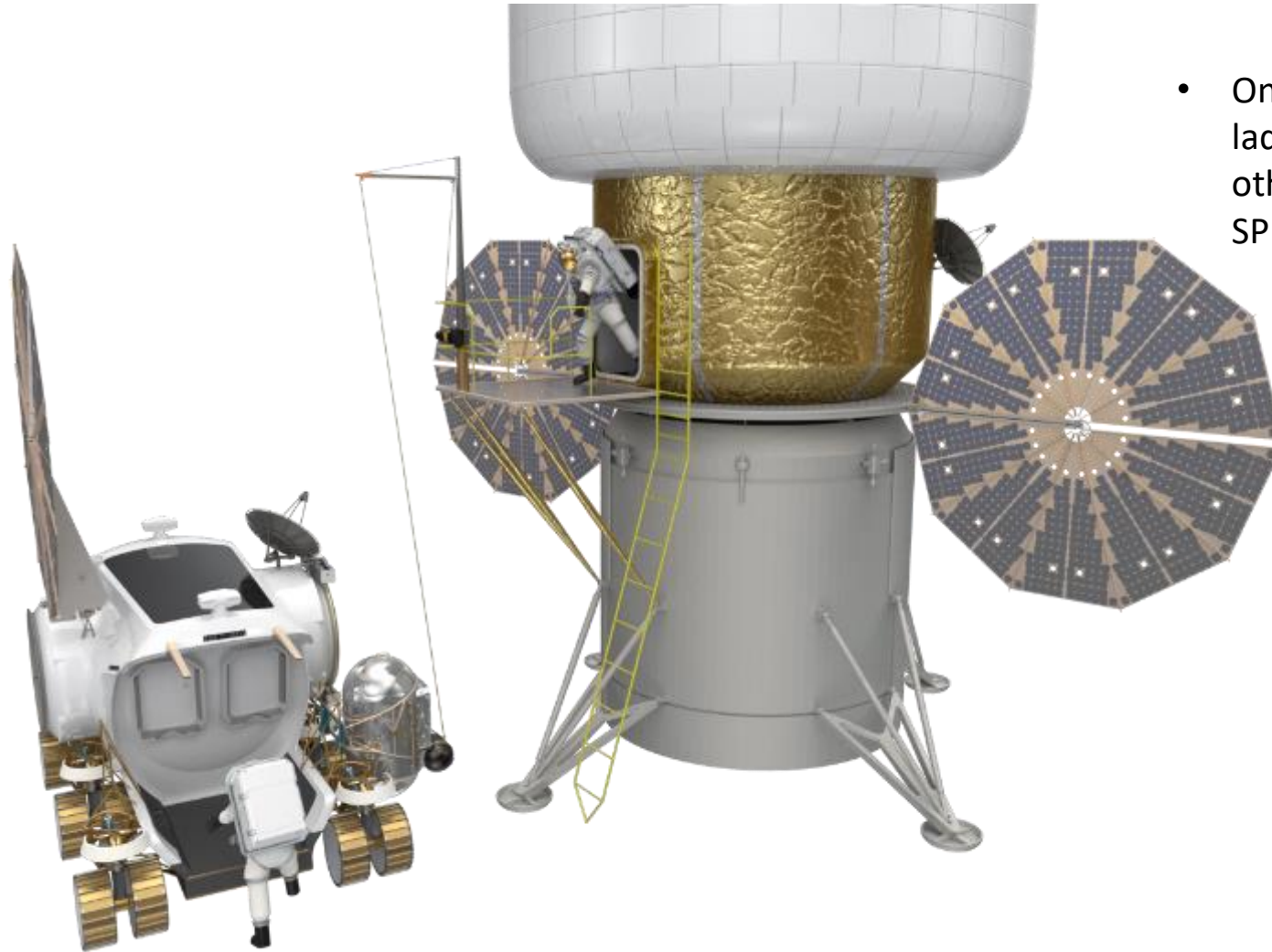
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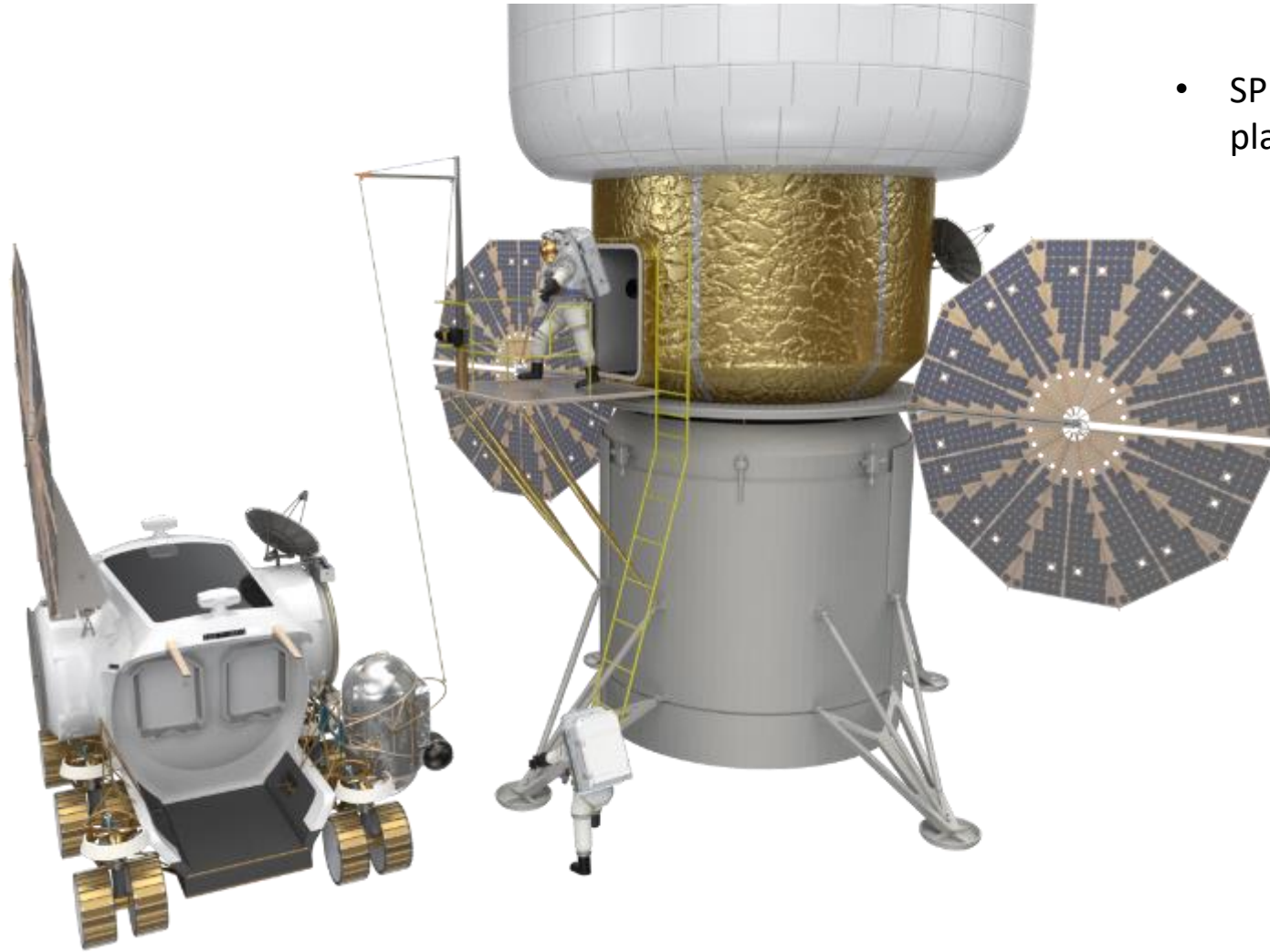


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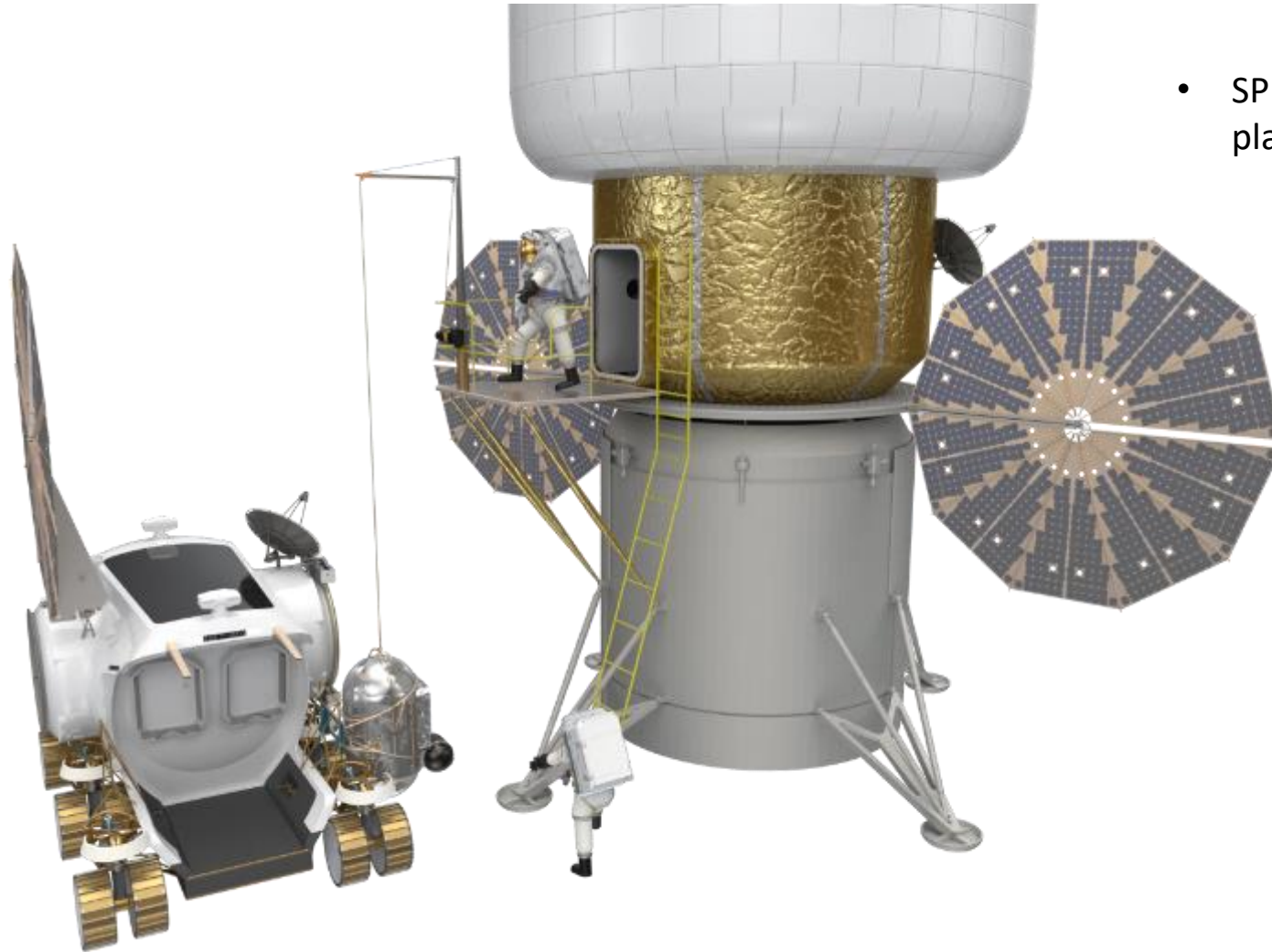


- One crewmember ascends ladder and lowers davit line to other crewmember to attach to SPLC

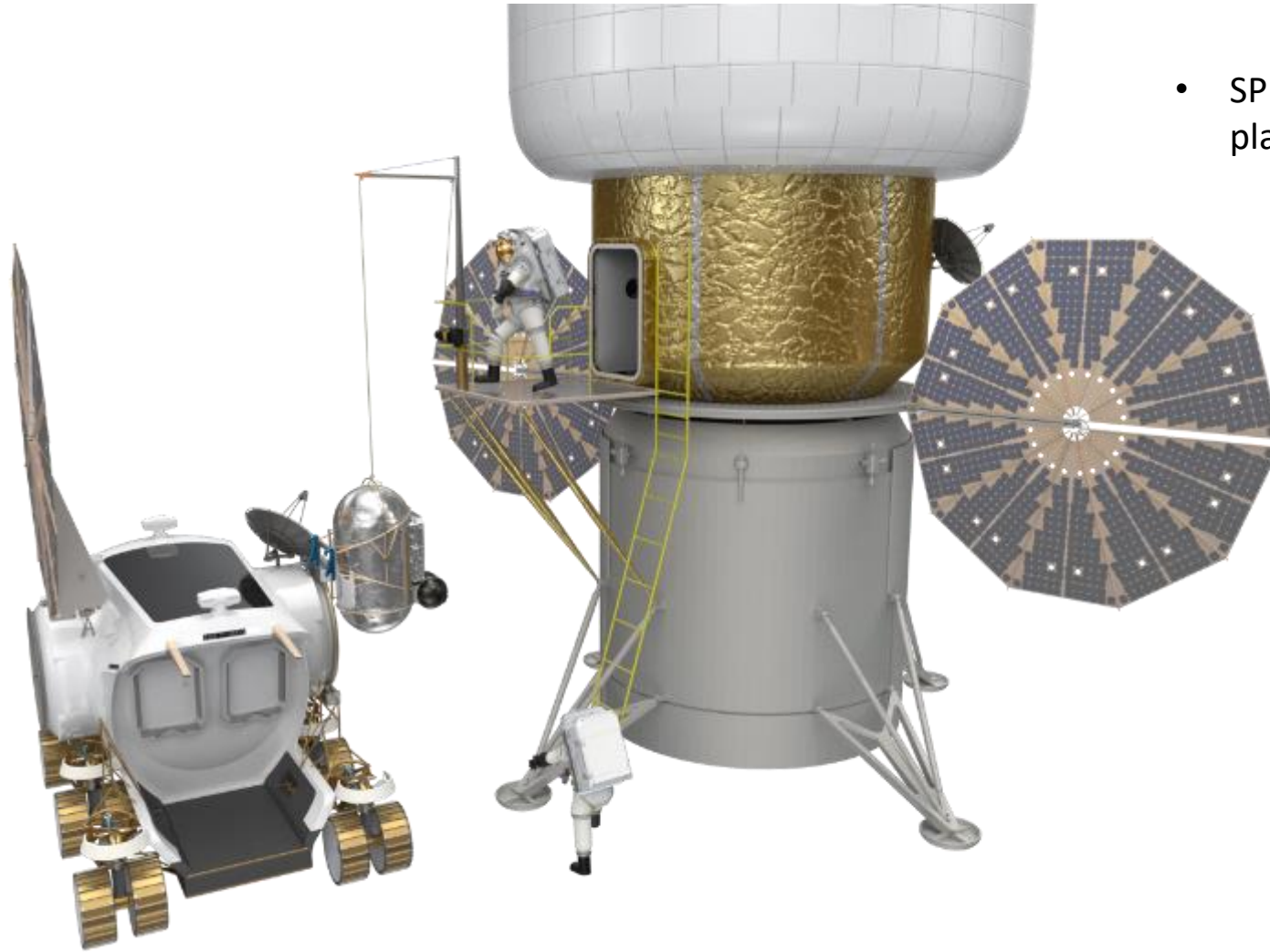




- SPLC is raised up to habitat platform

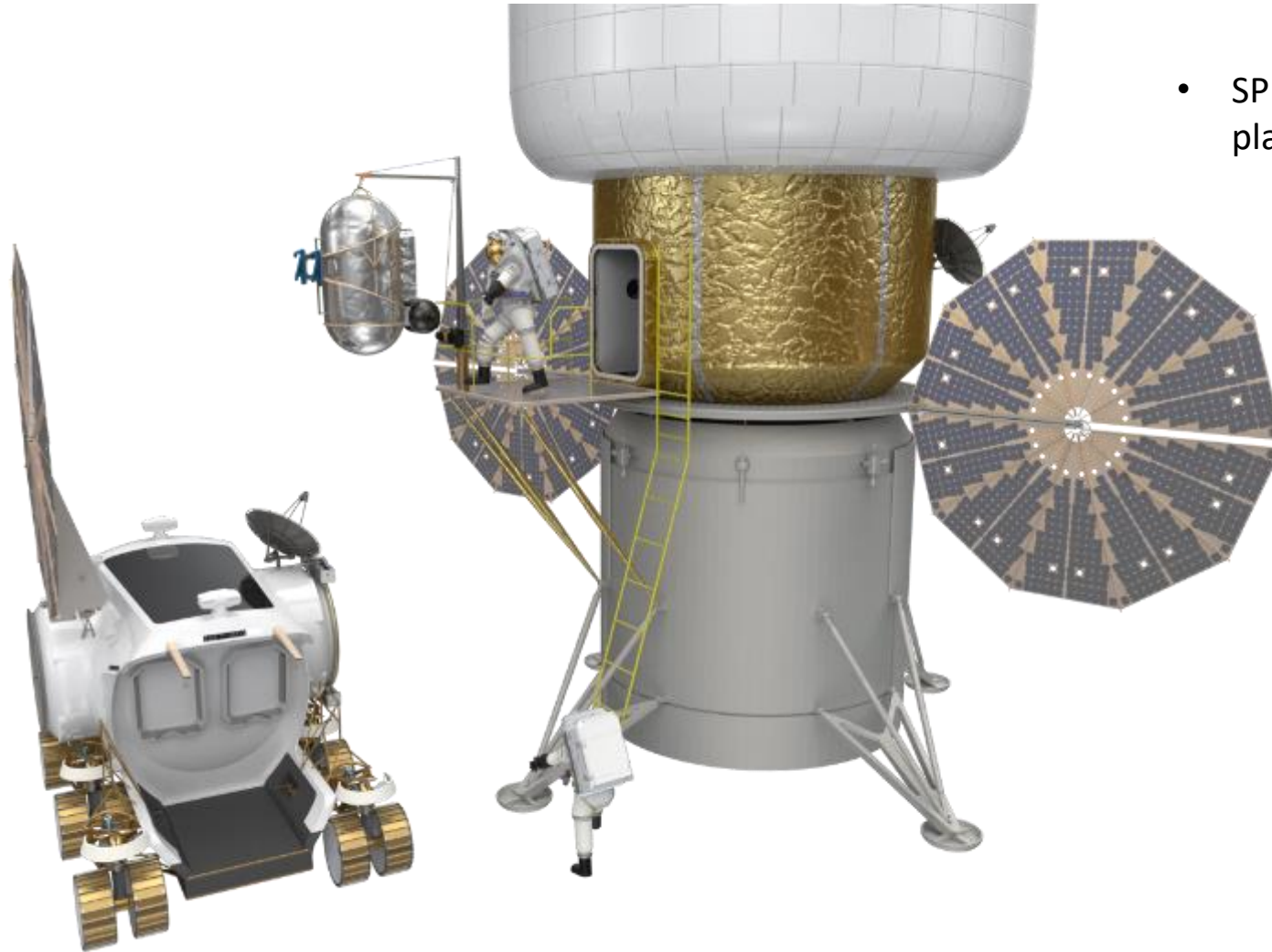


- SPLC is raised up to habitat platform



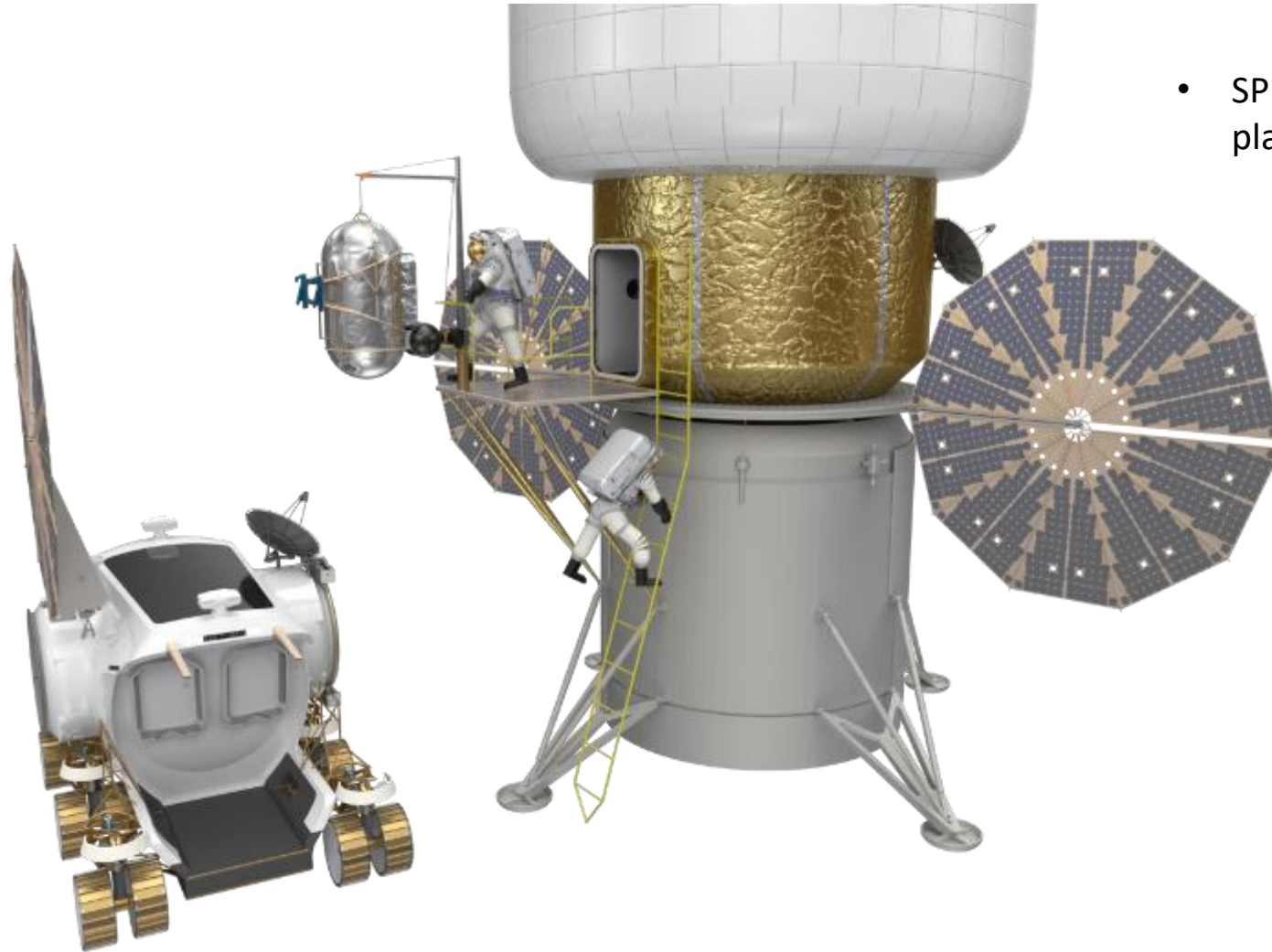
- SPLC is raised up to habitat platform

# Logistics Transfer Methods



- SPLC is raised up to habitat platform



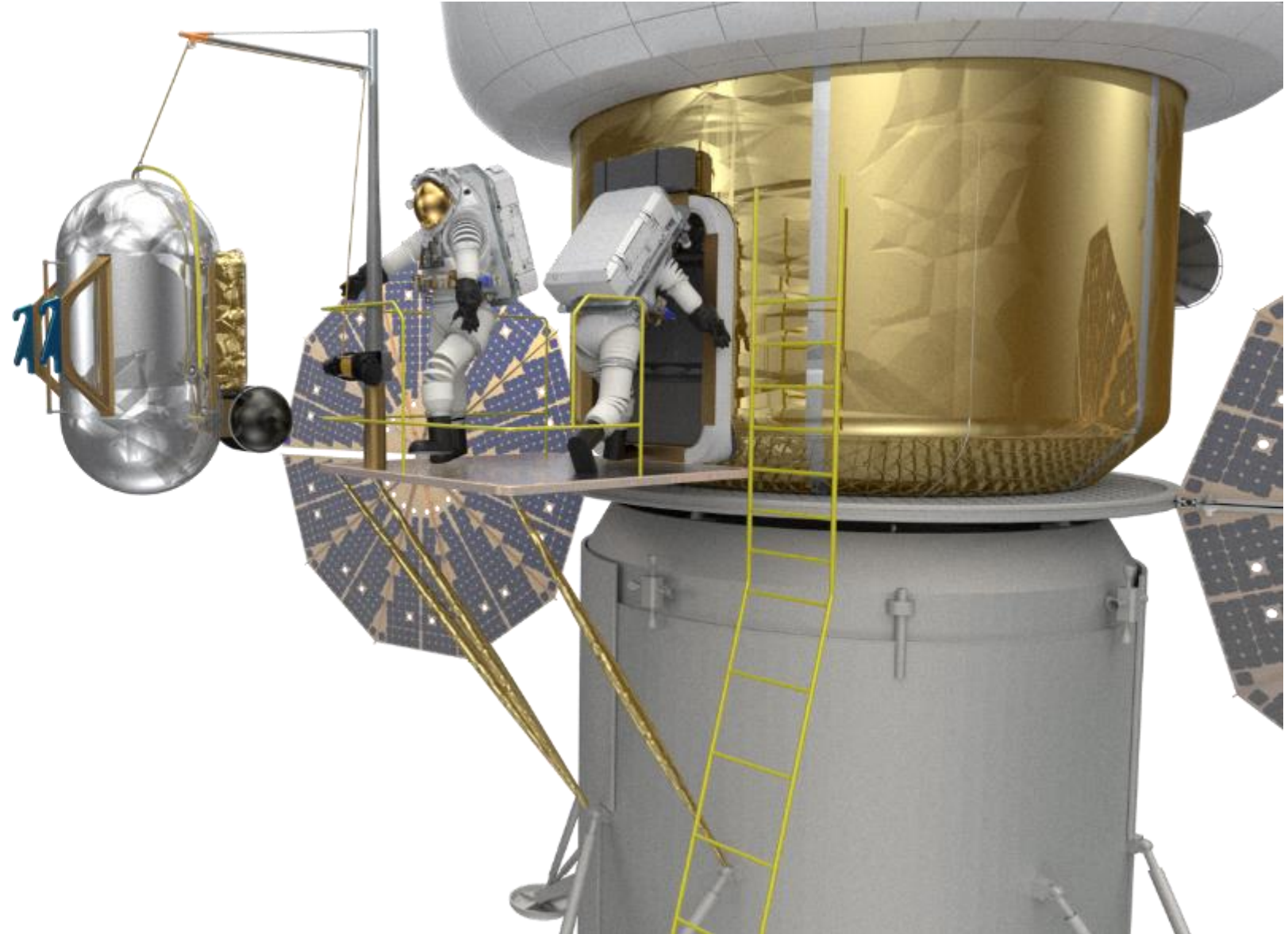


- SPLC is raised up to habitat platform

# Logistics Transfer from PR to Surface Habitat



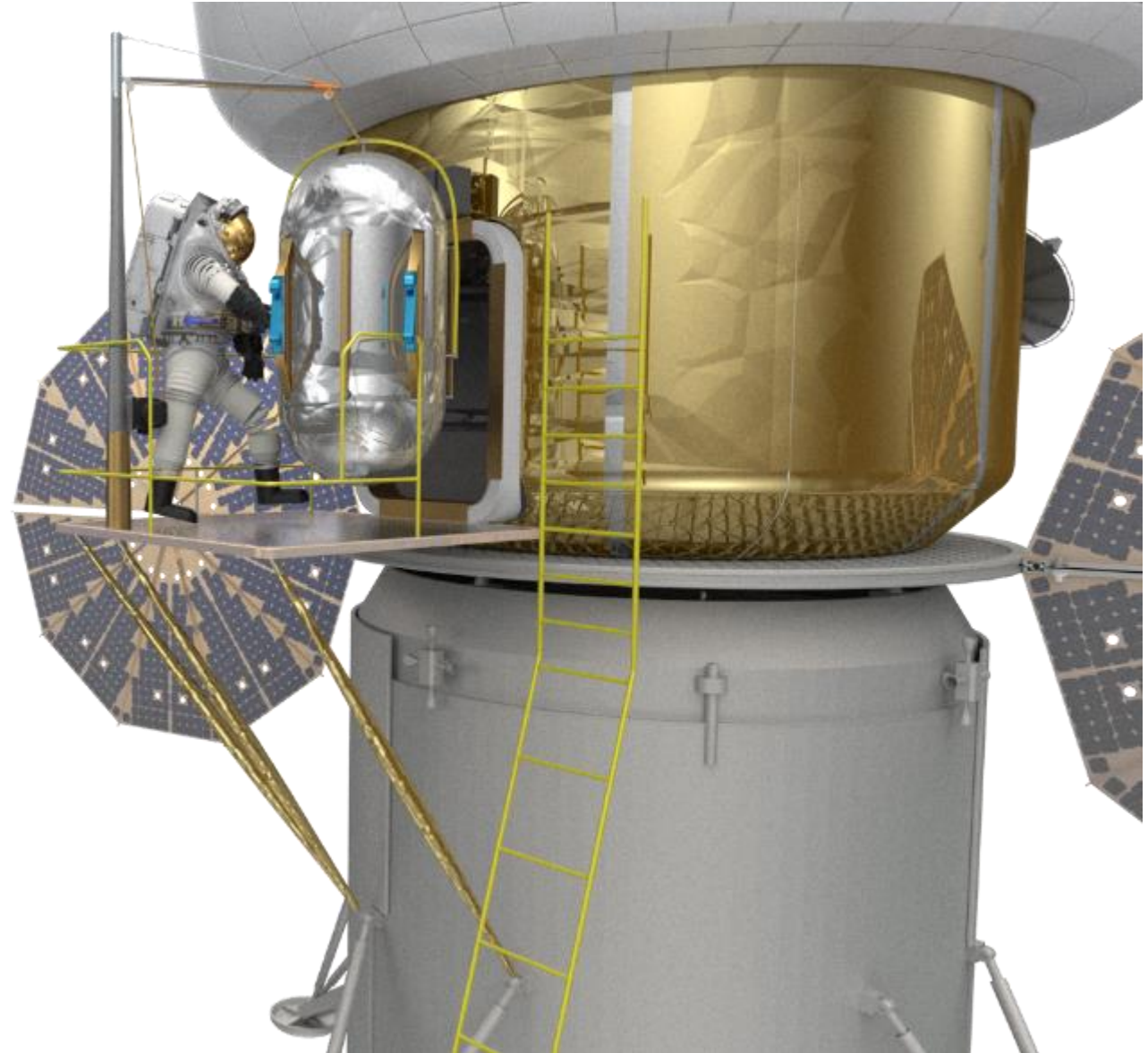
- One crewmember ingresses airlock to receive SPLC



# Logistics Transfer from PR to Surface Habitat



- SPLC transferred into airlock

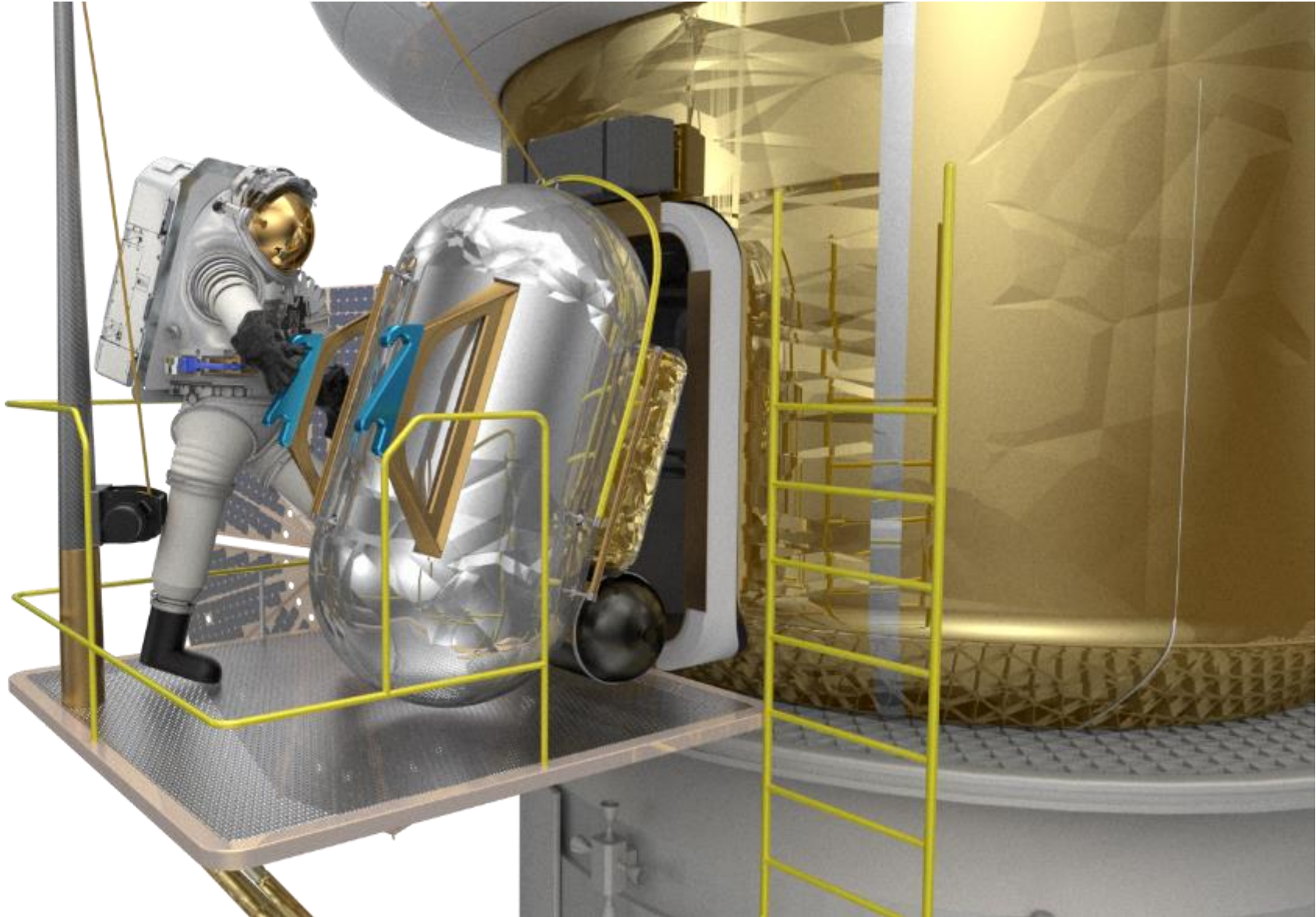




# Logistics Transfer from PR to Surface Habitat



- SPLC transferred into airlock

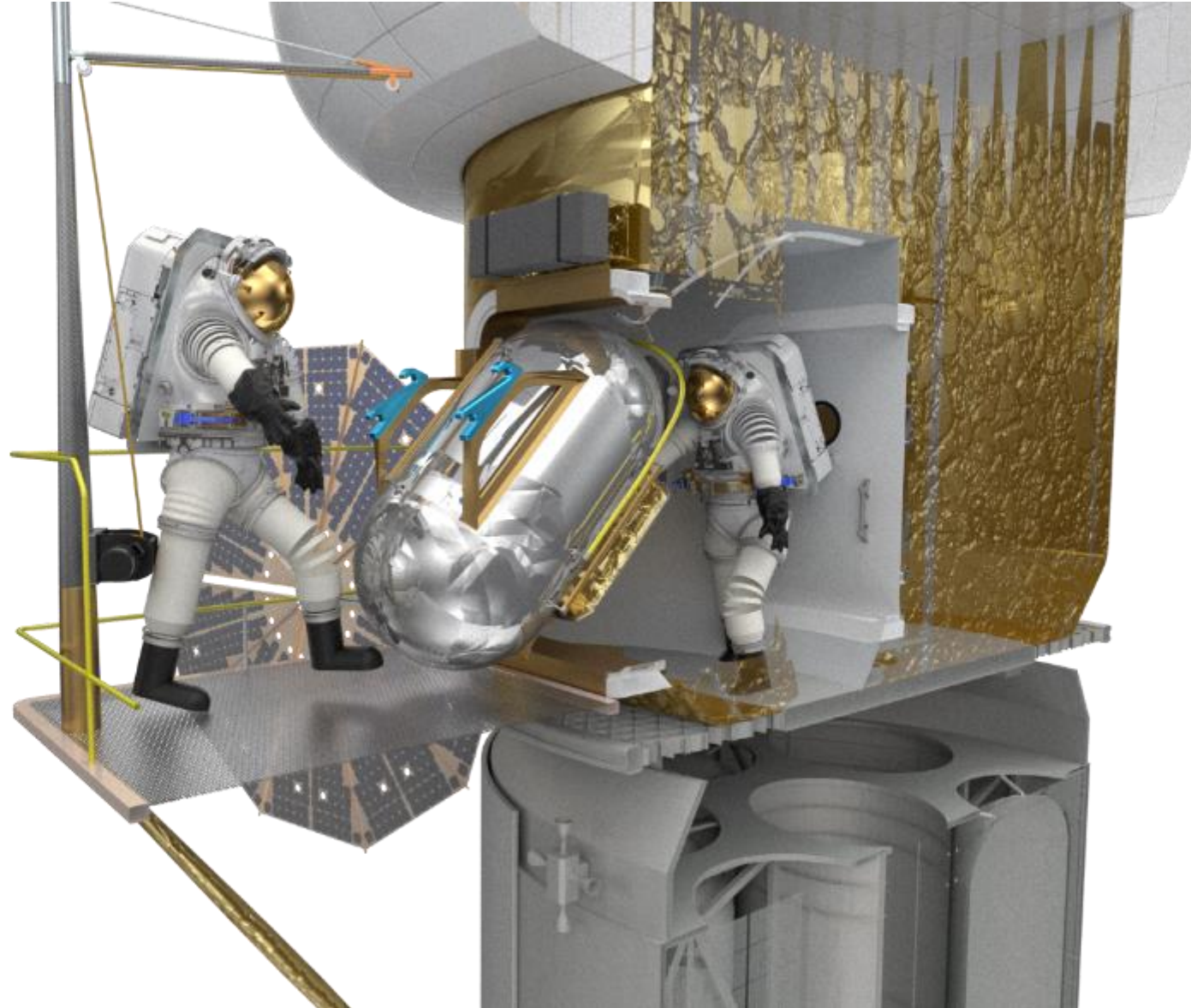




# Logistics Transfer from PR to Surface Habitat



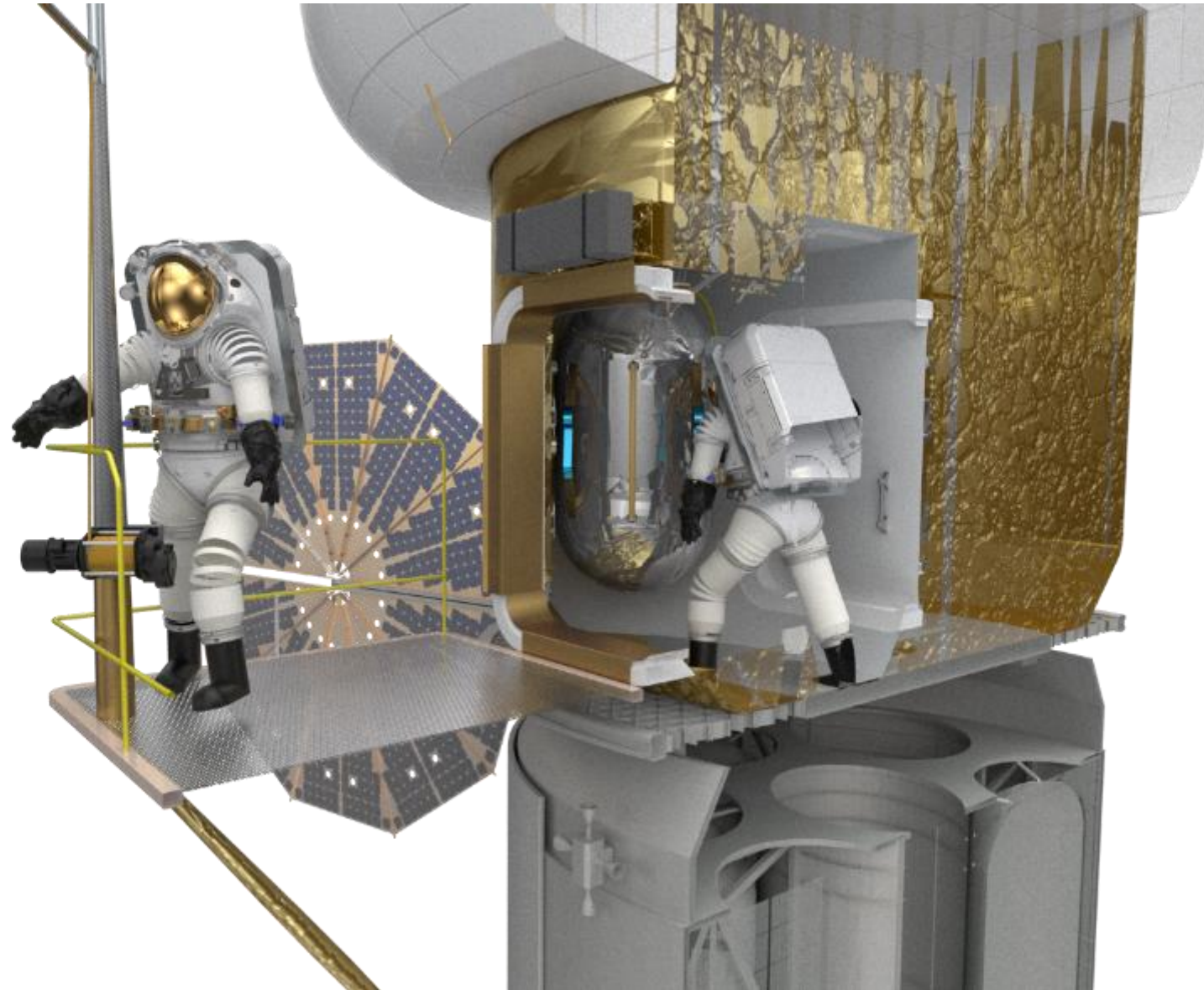
- SPLC transferred into airlock



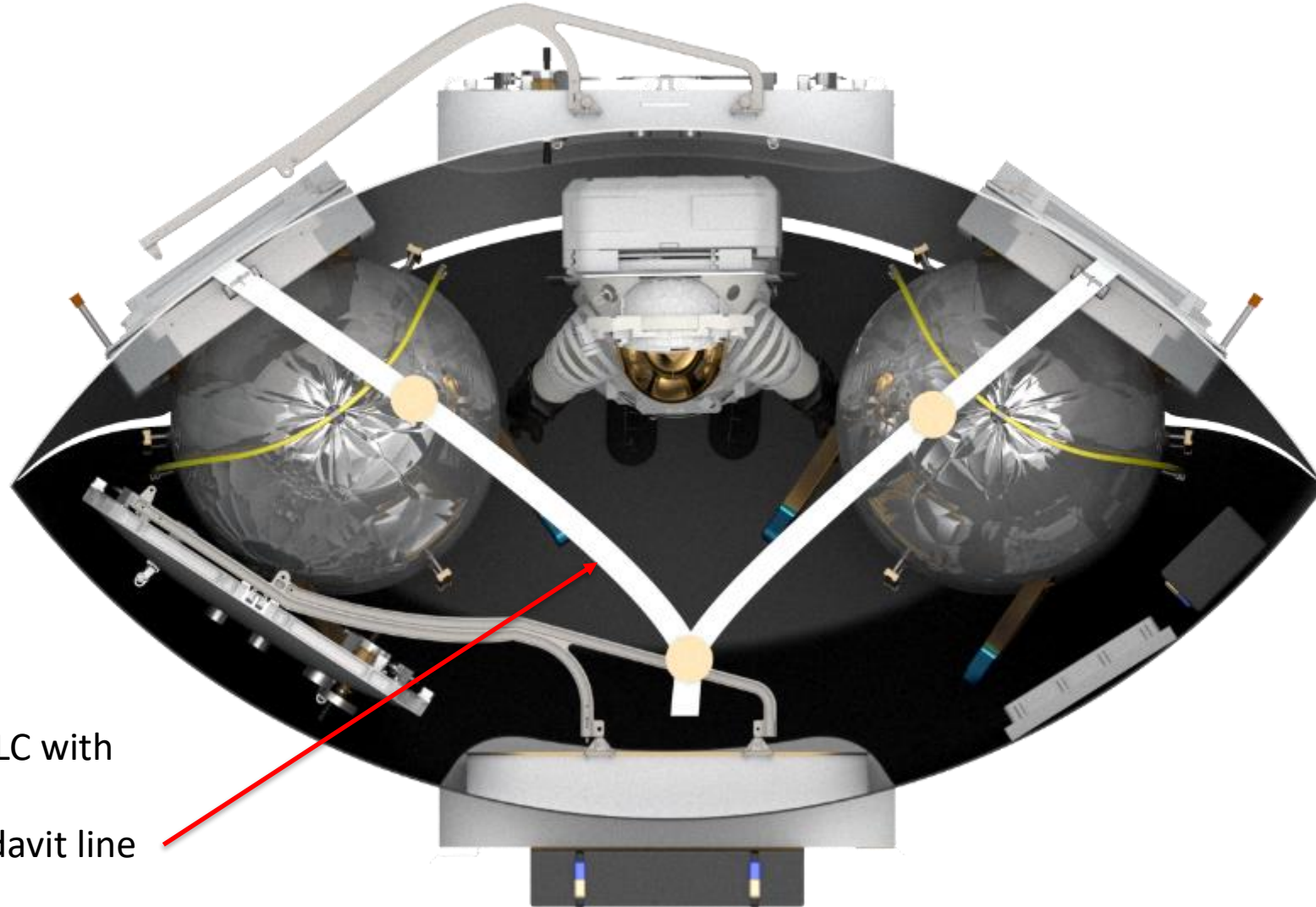
# Logistics Transfer from PR to Surface Habitat



- SPLC transferred into airlock
- Airlock has a rail system inside for load to be transferred to once davit line disconnected.



# Logistics Transfer from PR to Surface Habitat



Rail that aligns SPLC with hatch and load is transferred from davit line to rail